



# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 - (217) 782-3397

JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601 - (312) 814-6026

ROD R. BLAGOJEVICH, GOVERNOR

DOUGLAS P. SCOTT, DIRECTOR

217-524-1655

May 23, 2008

EPA Region 5 Records Ctr.



330992

The Honorable James J. Eder  
Associate Judge  
Fourth Judicial Circuit of Illinois  
Montgomery County Courthouse  
120 North Main Street  
Hillsboro, Illinois 62049

Re: 1358070001 - Montgomery County  
Eagle Zinc National Priorities List Site  
Superfund/Technical Reports

Judge Eder:

The purpose of this letter is to convey the results of the inspection and investigation of the Eagle Zinc National Priorities List (NPL) Site by the Illinois Environmental Protection Agency (Illinois EPA) to the Court as authorized and required by Administrative Search Warrant Number 08-MR-36, issued on April 17, 2008.

On April 30, 2008, Thomas Crause of the Illinois EPA Office of Site Evaluation, Richard Johnson of the Illinois EPA Field Operations Section Springfield Regional Office, and Clarence Smith, Terry Ayers, and Rick Lanham of the Illinois EPA Federal Site Remediation Section met at the Eagle Zinc NPL Site to collect data on waste materials located in and around the remaining structures, and to evaluate the remaining equipment and structures for demolition, salvage and/or scrap metal value at the abandoned facility. Also present during these investigations were Connie Hill, Public Property Commissioner for the City of Hillsboro; Morris Dodd, the project manager for the City of Hillsboro and a former Eagle Zinc Facility Superintendent; Bill Gonet, a Solid Waste Inspector with the Montgomery County Coordinated Services Office; and Beth Eckley, an engineer with Environ International Corporation, the environmental consulting firm for T. L. Diamond Corporation for the site.

## Summary of Field Sampling Activities

Over the three-day period of April 30, 2008 through May 2, 2008, and with the use of the Niton Corporation X-Ray fluorescence (XRF) field-based site characterization instrument, the sampling team collected and analyzed waste materials for heavy metal concentrations at 65 distinct locations on the eastern one-third of the property. In addition to conducting the XRF analysis of the wastes materials, the sampling team collected and sent ten of these samples to

May 23, 2008.

Letter to the Honorable James J. Eder

Regarding the Eagle Zinc National Priorities List Site

Page 2 of 3

Prairie Analytical Laboratories in Springfield, Illinois for total metals conformation and a waste characterization determination.

A Trimble survey grade global positioning system (GPS) instrument was used to mark and record the location of all outdoor sample locations. Indoor sample locations were identified and marked through the collective memories of the sampling team.

The XRF analysis of the waste documented a number of these samples contained total lead concentrations in excess of current regulatory limits. The laboratory analysis also documented the fact that the majority of the conformation samples would be classified as hazardous waste by current program definition.

It should be pointed out however, that a strong correlation did not exist between the XRF readings and the laboratory analysis at a number of the samples locations. With total lead concentrations as documented through the laboratory analysis routinely running two to five times greater than the concentrations documented with the XRF. A discussion with Niton Corporation technical representatives indicated that this condition was in all likelihood a result of the extremely high zinc concentrations being present in a number of the samples, therefore masking the true lead concentration levels.

Attachment 1 to this letter is a table that summarizes concentrations of a number of metals as documented with the Niton X-Ray fluorescence instrument. Also included in this table are the totals and toxicity characteristic leaching procedure (TCLP) metal analysis from the ten laboratory confirmation samples that were taken during the sampling event.

Figures 1 and 2 are maps which denote the locations of XRF samples. Included in these figures are the assigned XRF sample number identifier and the lead concentrations as documented with the XRF.

### **Summary of Field Structural Investigation Activities**

As a component of the Illinois EPA activities on-site, two Illinois EPA response action contracting firms were present to evaluate the condition of the abandoned equipment for scrap metal and/or salvage value, to estimate the cost of building demolition, with the segregation of the demolition debris into the categories of asbestos containing materials (ACM) for off-site disposal, putrescible wastes for off-site disposal, and non-putrescible building demolition debris for recycling or on-site disposal.

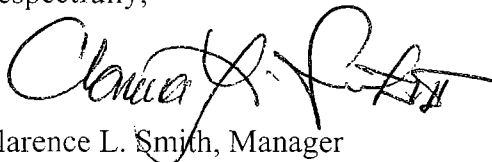
Attachment 2 to this letter is the estimate of REACT Environmental Engineers, 1120 South 6<sup>th</sup> Street, Saint Louis, Missouri and Attachment 3 to this letter is the estimate of Bodine

May 23, 2008  
Letter to the Honorable James J. Eder  
Regarding the Eagle Zinc National Priorities List Site  
Page 3 of 3

Environmental Services, Inc. 5350 East Firehouse Road, Decatur, Illinois to accomplish these proposed tasks.

If you should have any questions, need any additional information or wish to discuss any of these matters further please contact me at 217-524-1655 or via electronic mail at:  
[clarence.smith@illinois.gov](mailto:clarence.smith@illinois.gov).

Respectfully,

A handwritten signature in black ink, appearing to read "Clarence L. Smith", with a stylized flourish at the end.

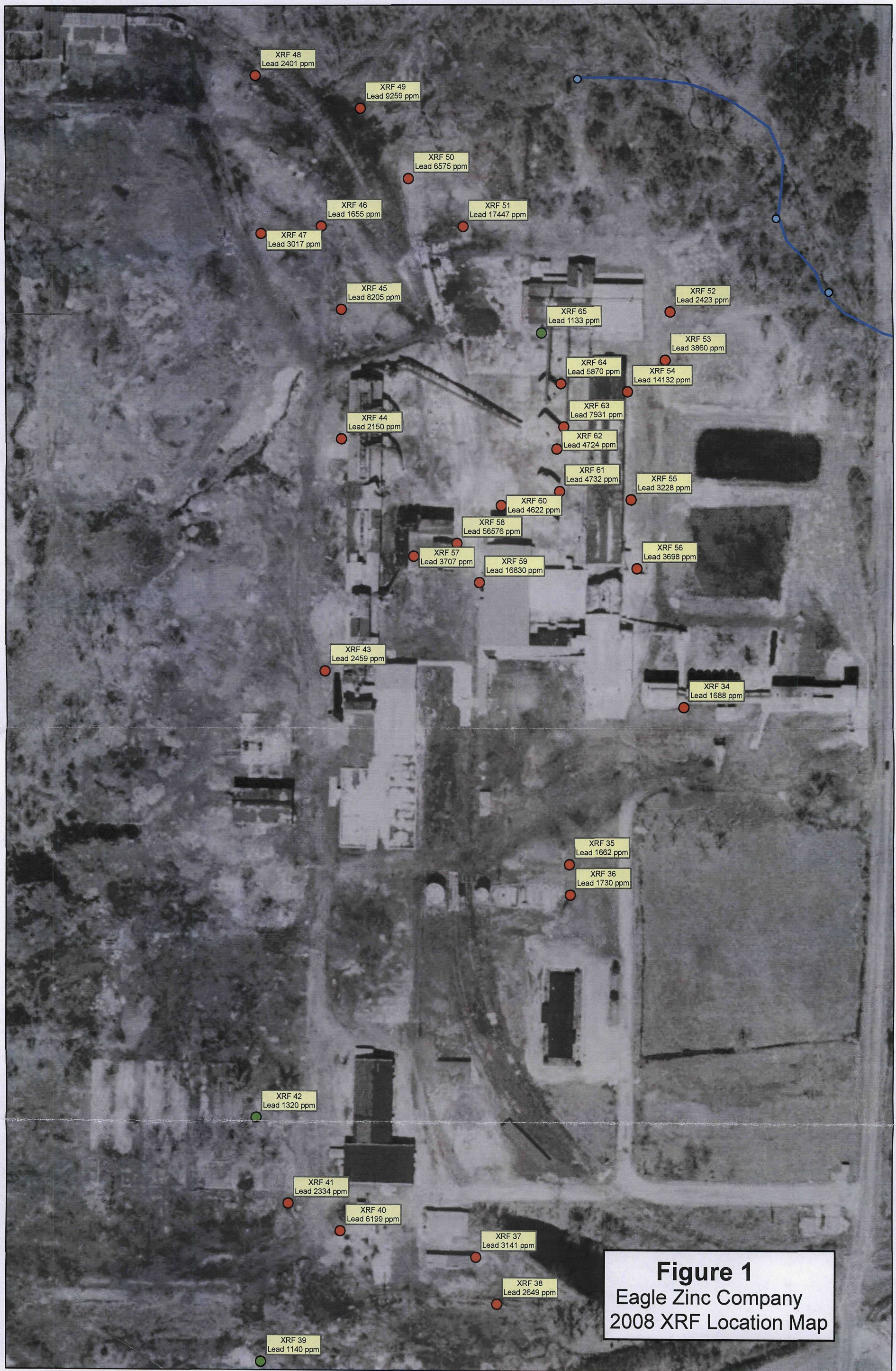
Clarence L. Smith, Manager  
Federal Site Remediation Section  
Division of Remediation Management  
Bureau of Land

Figures (2)  
Attachments (3)

cc: The Honorable William M. Baran  
Mayor  
City of Hillsboro  
Post Office Box 556  
Hillsboro, Illinois 62049

Ms. Allison Beth Eckley, EIT  
Environ International Corporation  
5401 Veterans Memorial Parkway, Suite 201  
Saint Peters, Missouri 63376





0 12.525 50 75 100  
Meters

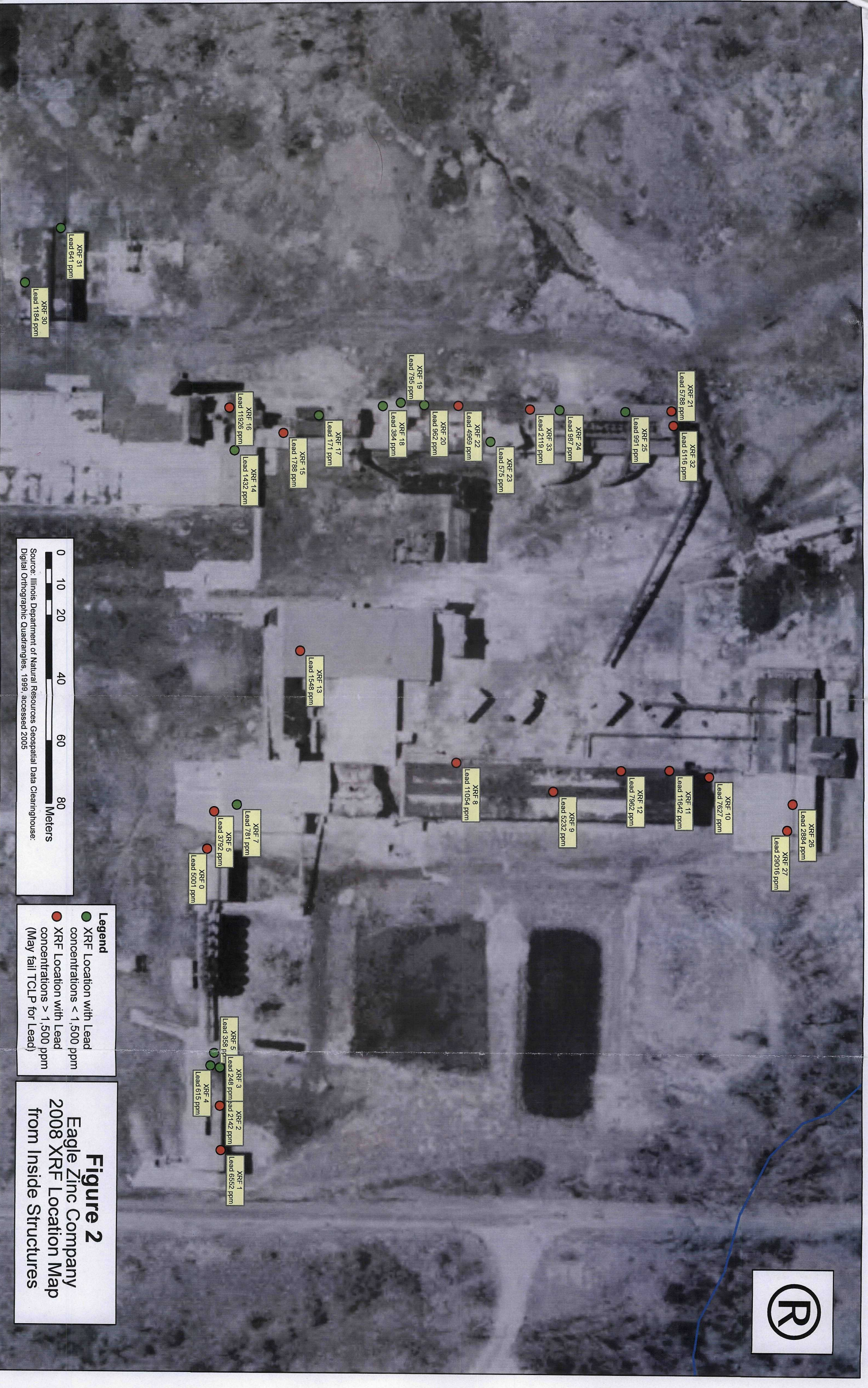
Source: Illinois Department of Natural Resources  
Geospatial Data Clearinghouse:  
Digital Orthographic Quadrangles, 1999, accessed 2005

**Legend**

- XRF Location with Lead concentrations < 1,500 ppm
- XRF Location with Lead concentrations > 1,500 ppm (May fail TCLP for Lead)









# EAGLE ZINC SITE: WASTE CONCENTRATIONS

Map Number	Units	Pb	As	Zn	Cu	Ni	Cr	Ba	Cd	TCLP
XRF 001	ppm	6552	198	1556094	1259	419	4099		137	
XRF 002	ppm	2142	5	634212	751	1053	2720		7	
XRF 003	ppm	248		281809	5111	2094	1201	200		
XRF 004	ppm	615	26	383566	857	77	571		142	
XRF 005	ppm	358	19	416348	127	16	133		53	
XRF 006	ppm	3792		1817547	933	478	3565			
XRF 007	ppm	781	70	310744	275	202	1246		59	
XRF 008	ppm	11054		666681	6216	2920	1958	221	14	
XRF 008C	ppm	27700	61	332000	5010	1460	43	655	140	56.0
XRF 009	ppm	5232		1677085	1481	1146	2022		253	
XRF 010	ppm	7627	138	685126	1766	1603	2621	136	103	
XRF 011	ppm	11642	131	1445490	2553	-42	3350		198	
XRF 012	ppm	7962	168	876729	15619	6947	2622		54	
XRF 013	ppm	1548		1883523	1239	110	2144			
XRF 014	ppm	1432		409707	1397	120	2471	190	203	
XRF 015	ppm	1788	68	444812	1770	553	524	205	131	
XRF 016	ppm	11926	546	589829	2321	1373	1944		24	
XRF 017	ppm	171		698262	8165	10513	2287	293	26	
XRF 018	ppm	384		702091	6122	2996	2415			
XRF 019	ppm	795	23	324037	3764	1420	427	149	16	
XRF 020	ppm	962	9	772174	1703	3078	2655		66	
XRF 021	ppm	5788	202	373476	75	2377	6607			
XRF 022	ppm	4969	196	428556	2011	786	1381	162	100	
XRF 023	ppm	575	25	206463	5198	1952	1543	313		
XRF 024	ppm	987		2258555	183	392	1513			
XRF 025	ppm	991	0	282480	2008	2395	849	160	13	
XRF 026	ppm	2884	113	117072	179644	1986	1559		51	
XRF 027	ppm	29016	526	1037859	26600	11559	7087		41	
XRF 028	ppm	5671	214	816391	8558	2861	2804	3655	44	
XRF 028C	ppm	6750	47	273000	4000	638	75	4670	133	9.2
XRF 029	ppm	584	30	334927	1448	513	1505	419	2	
XRF 030	ppm	1184		1779565	1692	-584	129			
XRF 031	ppm	641	44	715180	1792	1192	1329		21	
XRF 000	ppm	5001	195	627962	1301	332	805		4	
XRF 034	ppm	1688	13	602841	1135	454	237		11	
XRF 035	ppm	1662	67	205106	2952	250	583	236	4	
XRF 036	ppm	1730	55	269767	3693	414	484	235	11	
XRF 037	ppm	3141	131	100785	825	-23	411	298	65	
XRF 038	ppm	2649	39	28110	465	78	168	390	25	
XRF 039	ppm	1140	36	330531	953	412	229	227		
XRF 040	ppm	6199	282	139802	842	53	295	440	144	
XRF 041	ppm	2334	44	86946	994	37	177	426	240	
XRF 042	ppm	1320	70	127641	901	378	190		105	
XRF 043	ppm	2459	104	196580	48343	20215	2597	559	50	
XRF 043C	ppm	3860	62	70600	49900	17800	288	537	14	8.7
XRF 033	ppm	2119	60	240640	2399	75	397	242	263	
XRF 033C	ppm	5460	4	137000	1280	49	6	107	284	20.4
XRF 044	ppm	2150	39	454792	1859	2120	746		72	
XRF 032	ppm	5116	124	331536	1595	3649	-24	129	7	
XRF 045	ppm	8205	58	524161	18362	9734	1745	121	6	
XRF 047	ppm	3017	83	237868	7807	2855	616	195	36	
XRF 047C	ppm	15500	28	183000	27300	15300	419	160	69	7.8
XRF 048	ppm	2401		306170	4202	1476	471	168	13	
XRF 049	ppm	9259	287	543159	32969	9313	-351		38	
XRF 050	ppm	6575	142	577278	25274	9338	2404			
XRF 050C	ppm	15200	36	314000	36100	13800	365	85	40	4.4
XFR 051	ppm	17447	712	624661	25575	19704	2493	120		
XRF 052	ppm	2423	72	374672	6715	2015	1525	207		
XRF 053	ppm	3860	43	450937	13344	6966	770			
XRF 054	ppm	14132	98	451511	14831	9539	2207		35	
XRF 055	ppm	3228	24	423580	2731	306	653	172	22	
XRF 056	ppm	3698		816477	2115	470	778		78	
XRF 056C	ppm	12200	38	403000	2320	281	15	110	108	11.7
XRF 057	ppm	3707	152	295775	609	153	593	151	26	
XRF 058	ppm	56576	2015	230400	1551	268	360	108	11	
XRF 059	ppm	16830	457	979131	1095	506	1004		43	
XRF 060	ppm	4622	55	660123	1765	789	576	112	43	
XRF 060C	ppm	8200	13	130000	900	167	14	57	42	10.6
XRF 061	ppm	4732	19	678888	2484	601	202		45	
XRF 061C	ppm	10300	19	290000	1610	291	19	175	120	26.6
XRF 062	ppm	4724	102	708869	1868	560	1180			
XRF 063	ppm	7931	340	218328	997	133	28	287	6	
XRF 063C	ppm	11700	41	357000	890	309	104	383	64	8.5
XRF 064	ppm	5870	174	254351	3225	824	512	290		
XRF 065	ppm	1133	8	619345	2550	1235	831	98	49	
XRF 046	ppm	1655	73	207324	5430	1260	591	199	13	



08-37761

13 58070001  
Eagle Zinc  
SF/HectH



**environmental  
engineers**

a division of d.w. ryckman & associates, inc.

1120 S. 6th Street  
St. Louis, MO 63104-3628  
(314) 678-1398  
(314) 678-6610 FAX  
info@react-env.com  
(800) 325-1398 24 Hour

May 20, 2008

REACT Proposal No. 8046.17

Mr. Clarence L. Smith  
Manager, Federal Sites Unit  
Remediation Section  
Illinois Environmental Protection Agency  
Bureau of Land  
1021 North Grand Avenue East  
Springfield, IL 62794-9276

Attachment 2

REACT Demolition Cost Estimate  
Eagle Zinc NPL Site  
Hillsboro, Illinois

**RE: EAGLE ZINC NPL SITE; HILLSBORO, IL**

COPY

Clarence:

This letter is to transmit three (3) copies of or Proposal Work Plan for the Eagle Zinc NPL Site in Montgomery County, Hillsboro, Illinois.

Included are the following:

Proposal Work Plan  
Estimated Project Budget  
Proposed Project Schedule

Thanks for the opportunity to present this PWP. This project, with its' emphasis on recycling/recovery fits our mission in business :

*"...to better man's health and the environment by providing quality environmental engineering and field services, a commitment to worthy objectives, receptivity to innovation and stewardship of all resources"*

We look forward to working with you on this project. Feel free to call me at 314-678-1398 ext. 322 or Tony Warren (ext. 336) should you have questions or require further information.

Sincerely,

  
Stewart Ryckman  
President

enclosure

RECEIVED

MAY 21 2008

IEPA-BOL-FSRS



## **Proposed Work Plan**

**Eagle Zinc NPL Site  
Hillsboro, IL**

### **Prepared For:**

**Illinois Environmental Protection Agency  
1021 North Grand Ave. East  
Springfield, IL 62794**

### **Prepared By:**

**REACT Environmental Engineers  
1120 South 6<sup>th</sup> Street  
St. Louis, MO 63104**

**May 2008**

## Table of Contents

<b>Introduction</b> .....	1
<b>Building Asbestos Survey</b> .....	1
<b>Remediation Plan Description</b> .....	3
<b>Task 1 - Planning/Permitting</b> .....	3
<b>Task 2 - Mobilization/Site Preparation/Non-Task Specific</b> .....	3
<b>Task 3 - Building Asbestos Abatement</b> .....	4
<b>Task 5 - Demolition Waste Transport and Disposal</b> .....	6
<b>Task 4 - Building Demolition</b> .....	7
<b>Task 7 - Project Demobilization</b> .....	8

Figure 1: Site Map with Work Areas/Buildings

Attachment A: Main Structure Demolition/Remediation Cost Estimate

Attachment B: Proposed Schedule



## Introduction

REACT Environmental Engineers (REACT) was contracted by the Illinois Environmental Protection Agency (IEPA) to develop a Proposal Work Plan (PWP) for the remediation, demolition, salvage, and on/off-site disposal of building materials located at the Eagle Zinc NPL Site in Hillsboro, Montgomery County, Illinois. Our cost estimate has been developed using the 2009 wage rates for contract HWA-6305.

IEPA, REACT Environmental Engineers and Bodine Environmental had access to the site Wednesday, Thursday and Friday April 30 – May 2, 2008.

## Building Asbestos Survey

A preliminary visual inspection of the site buildings was conducted as part of the site access activities. Limited suspect asbestos containing materials (ACM) were observed. Suspect ACM included:

- |  |                          |
|--|--------------------------|
| • Floor Tile/Mastic (Office Bldg)      | 11,250 SF (not in scope) |
| • Ceiling Tile (Office Bldg)           | 11,250 SF (not in scope) |
| • Thermal Pipe Insulation and Fittings | 200 LF                   |
| • Asphalt Roofing                      | 23,250 SF                |

Several areas were inaccessible due to safety concerns including the kilns, basements and crawls spaces. The above listing may not identify all suspect ACM.

## Proposed Work Plan

Our approach and cost estimate is divided into the following tasks:

- Item 1: Project Planning/Mobilization/Site Preparation/Non-Task Specific Activities
- Item 2: Building Asbestos Abatement of Accessible Areas
- Item 3: Removal of Rotary Kiln Building A & B
- Item 4: Removal of Rail Lines
- Item 5: Removal of Misc. Steel Buildings
- Item 6: Removal of Baghouse Building
- Item 7: Removal of Brick Buildings
- Item 8: Cleaning of ASTs and Disposal of Waste
- Item 9: Project Demobilization

The work areas and buildings are identified on Figure 1. The overall duration of the project is estimated at 4 months (See Attachment B). The work is proposed to be generally executed in the order of the above task outline. Task scheduling for “minor tasks” will remain flexible to allow for tasks to be moved forward or back to maintain a consistent work flow (i.e. Rail line removal or Removal of the Brick Buildings may occur

intermittently as other tasks proceed and equipment/personnel become available). Project personnel include the following:

Project Manager  
Project Site Manager/H&S Officer  
4 Heavy Equipment Operators  
4 Laborers  
1 Truck Driver

All on-site personnel will have OSHA 40 Hour HazMat training and will be experienced heavy equipment operators.

REACT's approach is summarized as follows:

- Identify/Sample and perform asbestos abatement on safely accessible areas on buildings included in the remediation/demolition scope of work
- Remove, containerize, and properly dispose/recycle PCB containing light ballasts/capacitors, mercury containing light tubes, and mercury containing thermostats from safely accessible buildings in the remediation/demolition scope of work. Any of these items located in currently inaccessible or unsafe areas will be segregated from other debris as demolition proceeds.
- Perform "wet demolition" of site structures, with all resulting non-putrescible debris, excepting for scrap metals and ACM to be disposed of on-site in the designated area. Scrap metals will be segregated from other debris and deconned (if required) to be sent off-site for recycling.
- Major structures to be demolished to grade. Slabs to be left in place.
- Building steel to be processed on-site for transportation to off-site recycling/scrap facilities.
- Remove for scrap value remaining rail from the site.
- Putrescible and non-putrescible wastes will be segregated during demolition activities.
- Brick/Concrete to be made available for recycling. Non-recyclable material to be disposed of on-site.
- Putrescible materials (wood, fiber board, etc.) will be disposed of off-site.

### **Recycling of Building Materials**

Prior to demolition activities, a processing area will be established at the existing concrete walled slab area south of Rotary Kiln A (See Figure 1) where steel will be "processed" into dimensions designated by the metal recycler to gain maximum cost recovery for recyclable steel. The steel will be "processed" by using an excavator equipped with a second member sheer. After the steel is "processed" the excavator will load trucks to transport the steel to the metal recycling facility.

REACT intends to recycle as much brick as possible. Several sources have expressed interest in the material. These sources will be given the opportunity to inspect the brick

I:\Proproj.08\8046.17 IEPA Eagle Zinc\Proposed Work Plan Final.doc





and determine if they want to take the brick at no cost. Any brick that cannot be recycled will be taken to the on-site disposal area.

## **Remediation Plan Description**

A cost estimate for proposed remedial activities is provided as Attachment A to this proposed work plan. The following sections describe the planned remedial option methodologies as related to the cost estimate budget items:

### **Item 1 – Project Planning/ Mobilization/Site Preparation/Non-Task Specific**

The planning task includes the level of effort needed to prepare for site activities, including permit notifications, Work Plan preparation, and Health and Safety Plan preparation.

A utility (JULIE) search will be performed in order to identify any utilities that could be affected by site remediation activities. Service connections will be terminated at the site perimeter where feasible. Remaining service connections to the buildings including; electric, gas, water, and sewer will be properly disconnected from each building.

General work site H&S requirements will include site controls to prevent unauthorized access to the site using orange construction fencing at points of access to the site. Signs will also be posted identifying the work and directing visitors to check in at the on-site office trailer. An additional “danger tape” barrier will be placed around active work areas to separate hard hat/PPE required work areas from general staging areas.

To reduce on-site dust and the potential for airborne transport of contamination, all demolition activities will be continuously sprayed with a sufficient mist of water. Initial site work area, perimeter and task specific air monitoring will be conducted to confirm airborne levels of zinc oxide and lead. Air monitoring results will be utilized to confirm appropriate PPE and any additional dust or contaminant migration controls.

Site personnel will be required to conduct work activities in EPA Level D PPE (hard hat, safety glasses, steel-toed boots) and tyvek coveralls. Prior to eating or drinking site personnel will be required to wash their hands and face, and; prior to exiting the site for the day they will be required to remove PPE and shower.

Daily and task specific H&S meetings will be conducted for all personnel to review site, activity, equipment and material hazards.

Site personnel will utilize cell phones with radio communication to maintain security and safety.



This task also includes costs required to mobilize to the site and to prepare the site for remedial activities. A temporary office trailer will be mobilized to the site and set up, temporary portable toilet service and site personnel showers/decon facilities will be established, and the heavy equipment needed for site remediation will be mobilized to the site.

Non-task specific costs under this budget item include; Miscellaneous hazardous materials collection/transport/disposal (i.e., mercury containing light bulbs, PCB containing light ballasts, electrical capacitors and switching equipment, mercury containing thermostats), office trailer, site controls utility service charges, site vehicles, site showers/decon facilities and portable toilet service. Additionally, the anticipated project management, safety, and clerical time are all included under this item.

## **Item 2 - Building Asbestos Abatement of Accessible Areas**

Prior to performing any other site remediation, the accessible building areas will be inspected and suspect ACM will be sampled to confirm asbestos content. Areas requiring asbestos abatement will be fully abated by a licensed abatement contractor. ACM waste will be disposed of off-site at a licensed facility.

Work area and clearance air sampling will be performed during all abatement activities.

## **Item 3 – Removal of Rotary Kiln Buildings (A & B)** **Estimated duration: 30 days**

Laborers will first remove and collect for proper disposal, all remaining accessible potential mercury containing light bulbs, PCB containing light ballasts, electrical capacitors and switching equipment, mercury containing thermostats and any other miscellaneous identified or potential hazardous materials remaining in the structure. Collected hazardous waste will be properly containerized in drums, profiled, manifested and picked up for proper disposal.

Incoming piping and ductwork will be removed from around the Rotary Kiln Buildings to provide a 30 foot working zone to gain clear access for demolition. Two excavators equipped with third member sheers will be used to remove the ductwork and piping in these areas and shear the metal into manageable sized pieces to be moved to the processing area. A third excavator equipped with a grapple bucket will be used to move the steel to the processing area.

One excavator with the third member sheer will begin removal of Rotary Kiln Building A, and the second excavator equipped with a third member sheer will begin removal of Rotary Kiln Building B.



These buildings are primarily constructed of steel and will be removed from the top down to grade. The third member sheers will be used to shear the steel, including the rotary kilns, into manageable sizes for transport to the processing area. The steel will be brought to the processing area for shipment to the recycling facility.

General construction debris, including the kiln brick will segregated into putrescible and non-putrescible waste piles during demolition activities. All putrescible wastes will be transported to the Allied Waste landfill in Litchfield, IL for disposal.

After removal of all steel, any remaining concrete foundation walls will be broken down to grade by utilizing the excavator with grapple bucket. Concrete chunks will be partially broken up by the heavy equipment and, as needed, with the aid of a concrete breaker and transported to the on-site disposal area. The heavy equipment will pull structural steel and other recyclable scrap metal out from the debris. Any protruding reinforcing steel will be cut off with a torch. Collected scrap metal will be sent off for recycling.

Rotary Kiln A contains a basement area that could not be accessed during the site walk through. This basement area will be exposed and any salvageable steel will be removed and taken to the recycling area. The below grade portion will be filled with non-salvageable brick and other stable site material.

#### **Item 4 – Removal of Rail Lines**

**Estimated duration: 10 days**

A third member sheer will be used to cut the rail lines to correct length for transportation to the recycling facility. The lines will be directly loaded onto the steel hauling truck for transportation to the recycling facility.

Rail ties will be removed, collected and disposed of at the Allied Waste landfill in Litchfield, IL. Ties will be crushed to minimize waste volume.

#### **Item 5 – Removal of Misc. Steel Buildings**

**Estimated duration: 30 days**

Laborers will first remove and collect for proper disposal, all remaining accessible potential mercury containing light bulbs, PCB containing light ballasts, electrical capacitors and switching equipment, mercury containing thermostats and any other miscellaneous identified or potential hazardous materials remaining in the structure. Collected hazardous waste will be properly containerized in drums, documented and picked up for proper disposal.



These steel buildings will be removed in the same fashion as the rotary kiln buildings. All structural steel will be cut to a manageable size using the excavators with third member sheers and transported to the processing area.

Any general demolition debris will be segregated and transported to the on-site disposal area. On-site material will be crushed to minimize volume. Concrete chunks will be partially broken up by the heavy equipment and, as needed, with the aid of a concrete breaker and transported to the on-site disposal area. The heavy equipment will pull structural steel and other recyclable scrap metal out from the debris. Any protruding reinforcing steel will be cut off with a torch. Collected scrap metal will be sent off for recycling.

At this time any overhead steel pipe runs will be removed using the third member sheers and transported to the processing area.

The small brick buildings just west of the Baghouse will be removed and any steel from these buildings will be transported to the processing area. A tracked front loader and a tandem dump truck will be used to transport brick back to the on-site disposal area or the brick recycling area.

#### **Item 6 – Removal of Baghouse Building** **Estimated duration: 20 days**

Laborers will first remove and collect for proper disposal, all remaining accessible potential mercury containing light bulbs, PCB containing light ballasts, electrical capacitors and switching equipment, mercury containing thermostats and any other miscellaneous identified or potential hazardous materials remaining in the structure. Collected hazardous waste will be properly containerized in drums, documented and picked up for proper disposal.

Any remaining incoming piping and ductwork will be removed from around the baghouse to provide a 30 foot working zone to gain clear access to all walls around the baghouse. Two excavators equipped with third member sheers will be used to remove all ductwork and piping from the baghouse and sheer the metal into manageable pieces to be moved to the processing area. A third excavator equipped with a grapple bucket will be used to move the steel to the processing area.

After gaining clear access to the baghouse walls, the brick will be stripped from the building exposing the buildings structural steel beams and skeleton. A tracked front loader and a tandem dump truck will be used to transport brick to the on-site disposal area or the brick recycling area.

When the majority of the structural steel frame of the building is exposed, the two excavators with the third member processors will begin removing the steel frame and interior steel structures (hoppers, catwalks and interior beams). Steel removal



will begin at the roof of the building and will work down to the buildings foundations. The steel will be moved to the processing area where it will be prepped for transport/recycling.

Any remaining concrete or brick walls will be broken off to grade by using the excavator equipped with grapple bucket. The tracked loader and dump truck will continue transport demolition debris to the on-site disposal area or brick recycling area. All putrescible wastes will be crushed to minimize volume and transported to the Allied Waste landfill in Litchfield, IL for disposal. Concrete chunks will be partially broken up by the heavy equipment and, as needed, with the aid of a concrete breaker and transported to the on-site disposal area. The heavy equipment will pull structural steel and other recyclable scrap metal out from the debris. Any protruding reinforcing steel will be cut off with a torch. Collected scrap metal will be sent off for recycling.

#### **Item 7– Removal of Brick Buildings (Areas A, B, C)**

**Estimated duration: 20 days**

The three areas of brick buildings consist of several ancillary structures, (identified as Task 4: Brick Buildings Areas A, B, C on Figure 1). Laborers will first remove and collect for proper disposal, all remaining accessible potential mercury containing light bulbs, PCB containing light ballasts, electrical capacitors and switching equipment, mercury containing thermostats and any other miscellaneous identified or potential hazardous materials remaining in the structure. Collected hazardous waste will be properly containerized in drums, profiled, manifested and picked up for proper disposal.

The buildings will be removed by using an excavator equipped with a grapple bucket and a tracked loader. The structural steel will be segregated and taken to the processing area. All putrescible debris generated from the demolition of the brick structures, with the exception of any ACM (the asphalt roofs are suspect ACM), will be loaded onto dump trucks and transported to Allied Wastes landfill in Litchfield, IL. Each building will be taken down to grade. Concrete chunks will be partially broken up by the heavy equipment and, as needed, with the aid of a concrete breaker and transported to the on-site disposal area. The heavy equipment will pull structural steel and other recyclable scrap metal out from the debris. Any protruding reinforcing steel will be cut off with a torch. Collected scrap metal will be sent off for recycling.

The brick stack will be removed in a controlled demolition. An area will first be cleared to the east of the stack, giving it a place to fall. The area will be secured with safety fencing. The stack will be felled using the excavator equipped with a grapple bucket. After the stack is down, a track loader and dump truck will be used to transport the brick and construction debris for recycling or on-site disposal.

## **Item 8 – Cleaning of ASTs and Disposal of Waste**

Both AST's contain unknown quantities of acid and waste oil. Each tank will be evaluated to determine the potential hazards, safely accessed and visually inspected to determine if any product remains. Personnel will be required to wear nitril gloves, saranex suits and full face respirators equipped with organic vapor cartridges during the evaluation of the tanks. Air monitoring equipment will be utilized to determine the appropriate PPE for continued operations. A man lift will be used to gain access to the man way on the top of each tank. Personnel will be required to wear a lanyard attached to the lift platform while in the lift.

After initial evaluation of the tanks, quantities of the contents will be estimated as well as the physical state of the contents. Samples will be collected from each tank and field tested for pH. A sample will then be submitted to Veolia Environmental Solutions in Sauget, IL for fingerprint analysis.

Veolia Environmental Solutions will then be subcontracted to neutralize and clean the inside of the acid tank and dispose of the contents as well as removing and disposal of the oil tanks contents.

After the contents of the tanks have been removed, an excavator with a third member sheer will be used to remove each tank. An excavator equipped with a grapple bucket will be used to remove the concrete pillars that the tanks rested on to grade. Concrete chunks will be partially broken up by the heavy equipment and, as needed, with the aid of a concrete breaker and transported to the on-site disposal area. The heavy equipment will pull structural steel and other recyclable scrap metal out from the debris. Any protruding reinforcing steel will be cut off with a torch. Collected scrap metal will be sent off for recycling.

## **Item 9 - Project Demobilization**

**Estimated duration: 2 days**

Upon the completion of site activities, all remaining temporary site facilities, including; office trailer, equipment trailer, portable toilets, etc. will be removed from the site. All heavy equipment will be demobilized upon the completion of tasks where it is required.

Project documentation, including asbestos abatement documentation, air sampling results and disposal manifests will be assembled for submittal.





## **Metal Cost Recovery**

It is REACT Environmental Engineers estimate there is approximately 3700 tons of steel present at the Eagle Zinc Site available for cost recovery. REACT Environmental Engineers has been given a benchmark steel price of \$290.00/ ton from Grossman Steel and Iron in St. Louis Missouri. This currently makes available approximately \$1,073,000.00 cost recovery for this project.

However, due to the volatility in the steel market, this price may rise or fall in the coming months and a new benchmark price will have to be determined before project startup.



Figure 1: Site Map with Work /



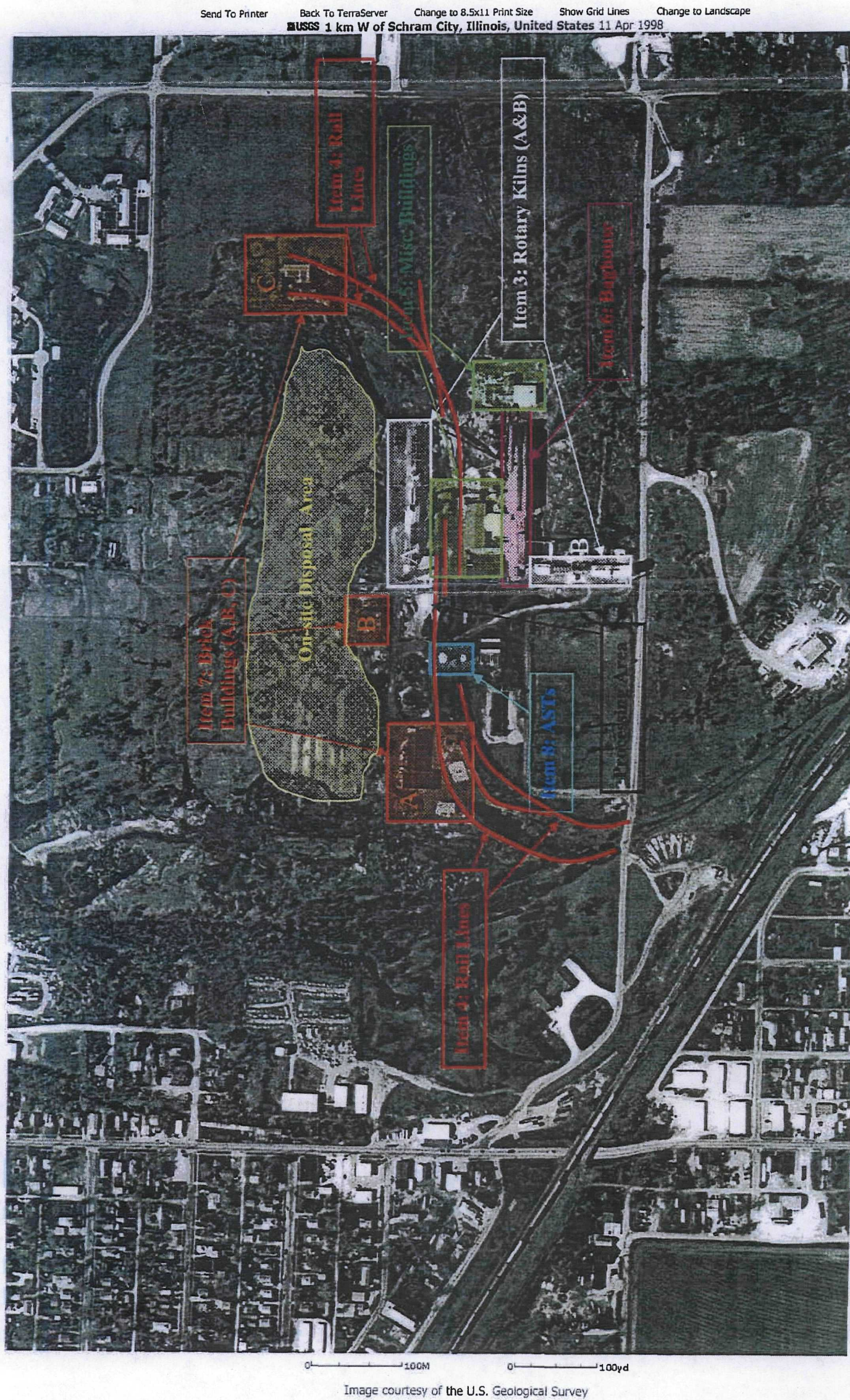


Figure 1: Site Map with Work Areas/Buildings



ATTACHMENT A:  
Budget Estimate: Main Structure Demolition/Remediation Cost Estimate

Item	Description	Billing Reference	Units	UoM	Labor Rate	Unit Rate	Subcontractor Total	TOTAL	EXTENDED
1	Mobilization/Site Preparation/Non-Task Specific		1	est				Total	\$ 213,435.30
	Mob/Site Prep								
	Proj Manager	REACT Contract	60	hr	\$ 81.55			\$ 4,893.00	
	Health and Safety Officer	REACT Contract	50	hr	\$ 59.81			\$ 2,990.50	
	Site Manager	REACT Contract	40	hr	\$ 66.33			\$ 2,653.20	
	Operator (2)	REACT Contract	40	hr	\$ 68.51			\$ 2,740.40	
	Heavy Equipment Mob	est	1	each		\$ 12,000.00		\$ 12,000.00	
	Job Trailer	Pac Van	4	MO		\$ 250.00		\$ 1,000.00	
	Electrical Hook up	est	1	each		\$ 2,500.00		\$ 2,500.00	
	Transport/Disposal of Misc. HazMat.	est	12	drums		\$ 400.00		\$ 4,800.00	
	Portable Shower Service	rental	4	mo		\$ 400.00		\$ 1,600.00	
	Portable Toilet Service	99-04-05, Page 10-3	4	mo		\$ 88.15		\$ 352.60	
	Equipment Fueling	at cost	80	day		\$ 2,000.00		\$ 160,000.00	
	Regular Equip Service	at cost	1	est		\$ 8,500.00		\$ 8,500.00	
	Site vehicles (3)	33-01-0107, Page 9-1	240	day		\$ 39.19		\$ 9,405.60	
2	Building Asbestos Abatement of Accessible Areas		1	est				Total	\$ 80,975.00
	Abatement Contractor mob/setup	Great Western Abatement	1	ea		\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	
	Suspect Asbestos roofing material	Great Western Abatement	23250	sf		\$ 3.00	\$ 69,750.00	\$ 69,750.00	
	Thermal Pipe Insulation abatement	Great Western Abatement	200	lf		\$ 18.00	\$ 3,600.00	\$ 3,600.00	
	Asbestos Clearance	Farmer Environmental Serv.	5	day		\$ 525.00	\$ 2,625.00	\$ 2,625.00	
3	Removal of Rotary Kiln Buildings		1	est				Total	\$ 382,501.20
	30 days for removal and hauling								
	Project Manager	REACT Contract	48	hr	\$ 81.55			\$ 3,914.40	
	Health and Safety Officer	REACT Contract	60	hr	\$ 59.81			\$ 3,588.60	
	Laborer (4)	REACT Contract	960	hr	\$ 56.55			\$ 54,288.00	
	Laborer - OT	REACT Contract	240	hr	\$ 72.88			\$ 17,486.40	
	Operator (4)	REACT Contract	960	hr	\$ 68.51			\$ 65,769.60	
	Operator - OT	REACT Contract	240	hr	\$ 88.08			\$ 21,139.20	
	Truck Driver	REACT Contract	180	hr	\$ 55.89			\$ 8,942.40	
	Truck Driver (OT)	REACT Contract	40	hr	\$ 73.94			\$ 2,957.60	
	Trackhoe Excavator (3.125 CY Bucket)(2)	Crew CODEE, ECHOS p 2-8	600	hr		\$ 199.16		\$ 119,496.00	
	Track Loader (2.5 CY bucket)	Crew CODLM, ECHOS p 2-12	150	hr		\$ 99.25		\$ 14,887.50	
	Trackhoe Excavator (2.0 CY Bucket) (2)	Crew CODE1, ECHOS p 2-8	450	hr		\$ 114.95		\$ 51,727.50	
	Truck Highway	Crew CODE1A, ECHOS p2-21	200	hr		\$ 43.82		\$ 8,764.00	
	Per diem (3 person)	State rate	90	ea		\$ 36.00		\$ 3,240.00	
	Lodging (3 person)	State rate	90	ea		\$ 70.00		\$ 6,300.00	



**ATTACHMENT A:**  
**Budget Estimate: Main Structure Demolition/Remediation Cost Estimate**

Item	Description	Billing Reference	Units	UoM	Labor Rate	Unit Rate	Subcontractor Total	TOTAL	EXTENDED
<b>4</b>	<b>Removal Rail Lines</b>		<b>1</b>	<b>est</b>				<b>Total</b>	<b>\$ 73,107.40</b>
	10 Days for Removal								
	Project Manager	REACT Contract	10	hr	\$ 81.55			\$ 815.50	
	Health and Safety Officer	REACT Contract	20	hr	\$ 59.81			\$ 1,196.20	
	Laborer (2)	REACT Contract	160	hr	\$ 56.55			\$ 9,048.00	
	Laborer - OT	REACT Contract	40	hr	\$ 72.86			\$ 2,914.40	
	Operator (2)	REACT Contract	160	hr	\$ 66.51			\$ 10,661.60	
	Operator - OT	REACT Contract	40	hr	\$ 88.08			\$ 3,523.20	
	Trackhoe Excavator (3.125 CY Bucket)	Crew CODEE, ECHOS p 2-8	100	hr		\$ 199.16		\$ 19,916.00	
	Trackhoe Excavator (2.0 CY Bucket)	Crew CODE1, ECHOS p 2-8	100	hr		\$ 114.95		\$ 11,495.00	
	Per diem (3 person)	State rate	30	ea		\$ 36.00		\$ 1,080.00	
	Lodging (3 person)	State rate	30	ea		\$ 70.00		\$ 2,100.00	
	Disposal of Rail Ties	Allied Waste	225	tons		\$ 35.50		\$ 7,987.50	
	Waste Material Transportation @ 10 tons/load	Garcia Trucking	23	loads		\$ 90.00		\$ 2,070.00	
<b>5</b>	<b>Removal of Misc Steel Buildings</b>		<b>1</b>	<b>est</b>				<b>Total</b>	<b>\$ 382,501.20</b>
	30 days for removal								
	Project Manager	REACT Contract	48	hr	\$ 81.55			\$ 3,914.40	
	Health and Safety Officer	REACT Contract	60	hr	\$ 59.81			\$ 3,588.60	
	Laborer (4)	REACT Contract	960	hr	\$ 56.55			\$ 54,288.00	
	Laborer - OT	REACT Contract	240	hr	\$ 72.86			\$ 17,486.40	
	Operator (4)	REACT Contract	960	hr	\$ 66.51			\$ 63,768.00	
	Operator - OT	REACT Contract	240	hr	\$ 88.08			\$ 21,139.20	
	Truck Driver	REACT Contract	160	hr	\$ 55.89			\$ 8,942.40	
	Truck Driver (OT)	REACT Contract	40	hr	\$ 73.94			\$ 2,957.60	
	Trackhoe Excavator (3.125 CY Bucket)(2)	Crew CODEE, ECHOS p 2-8	600	hr		\$ 199.16		\$ 119,496.00	
	Track Loader (2.5 CY bucket)	Crew CODLH, ECHOS p 2-12	150	hr		\$ 99.25		\$ 14,887.50	
	Trackhoe Excavator (2.0 CY Bucket) (2)	Crew CODE1, ECHOS p 2-8	450	hr		\$ 114.95		\$ 51,727.50	
	Truck Highway	Crew CODE1A, ECHOS p2-21	200	hr		\$ 43.82		\$ 8,764.00	
	Per diem (3 person)	State rate	90	ea		\$ 36.00		\$ 3,240.00	
	Lodging (3 person)	State rate	90	ea		\$ 70.00		\$ 6,300.00	
<b>6</b>	<b>Removal of Bag House</b>		<b>1</b>	<b>est</b>				<b>Total</b>	<b>\$ 229,850.00</b>
	20 days for removal and hauling								
	Project Manager	REACT Contract	32	hr	\$ 81.55			\$ 2,609.60	
	Health and Safety Officer	REACT Contract	40	hr	\$ 59.81			\$ 2,392.40	
	Laborer (2)	REACT Contract	280	hr	\$ 56.55			\$ 15,834.00	
	Laborer - OT	REACT Contract	120	hr	\$ 72.86			\$ 8,743.20	
	Operator (4)	REACT Contract	560	hr	\$ 66.51			\$ 37,061.60	
	Operator - OT	REACT Contract	240	hr	\$ 88.08			\$ 21,139.20	
	Truck Driver	REACT Contract	80	hr	\$ 55.89			\$ 4,471.20	
	Truck Driver (OT)	REACT Contract	20	hr	\$ 73.94			\$ 1,478.80	
	Trackhoe Excavator (3.125 CY Bucket)(2)	Crew CODEE, ECHOS p 2-8	400	hr		\$ 199.16		\$ 79,664.00	
	Track Loader (2.5 CY bucket)	Crew CODLH, ECHOS p 2-12	100	hr		\$ 99.25		\$ 9,925.00	
	Trackhoe Excavator (2.0 CY Bucket) (2)	Crew CODE1, ECHOS p 2-8	300	hr		\$ 114.95		\$ 34,485.00	
	Truck Highway	Crew CODE1A, ECHOS p2-21	100	hr		\$ 43.82		\$ 4,382.00	
	Per diem (3 person)	State rate	60	ea		\$ 36.00		\$ 2,160.00	
	Lodging (3 person)	State rate	60	ea		\$ 70.00		\$ 4,200.00	

**ATTACHMENT A:**  
**Budget Estimate: Main Structure Demolition/Remediation Cost Estimate**

Item	Description	Billing Reference	Units	UoM	Labor Rate	Unit Rate	Subcontractor Total	TOTAL	EXTENDED
7	<b>Removal of Brick Buildings</b> 20 days for demo and hauling Includes Transporting Demo Debris to stockpile area and		1	Est				<b>Total</b>	<b>\$ 194,510.40</b>
	Project Manager	REACT Contract	32	hr	\$ 81.55			\$ 2,609.60	
	Health and Safety Officer	REACT Contract	40	hr	\$ 59.81			\$ 2,392.40	
	Laborer (2)	REACT Contract	320	hr	\$ 56.55			\$ 18,096.00	
	Laborer - OT	REACT Contract	80	hr	\$ 72.80			\$ 5,828.80	
	Operator (2)	REACT Contract	320	hr	\$ 68.51			\$ 21,923.20	
	Operator - OT	REACT Contract	80	hr	\$ 88.08			\$ 7,046.40	
	Truck Driver	REACT Contract	160	hr	\$ 55.89			\$ 8,942.40	
	Truck Driver (OT)	REACT Contract	40	hr	\$ 73.94			\$ 2,957.60	
	Trackhoe Excavator (2 0 CY Bucket)	Crew CODE1, ECHOS p 2-8	200	hr		\$ 114.95		\$ 22,990.00	
	Track Loader (2.5 CY bucket)	Crew CODLH, ECHOS p 2-12	200	hr		\$ 99.25		\$ 19,850.00	
	Truck Highway	Crew COEIA, ECHOS p2-21	200	hr		\$ 43.82		\$ 8,764.00	
	Waste Material Disposal	Allied waste	1500	tons		\$ 35.50		\$ 53,250.00	
	Waste Material transportation@10 tons/load	Garcia Trucking	150	loads		\$ 90.00		\$ 13,500.00	
	Per diem (3 person)	State rate	60	ea		\$ 36.00		\$ 2,160.00	
	Lodging (3 person)	State rate	60	ea		\$ 70.00		\$ 4,200.00	
8	<b>Cleaning of AST and Disposal of Waste</b> Open Item		1	Est				<b>Total</b>	<b>\$ 24,239.80</b>
	Health and Safety Officer	REACT Contract	20	hr	\$ 59.81			\$ 1,196.20	
	Cleaning of Tanks	VEOLIA Environmental Solutions	1	est		\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	
	Transportation Disposal of Acid Sludge	VEOLIA Environmental Solutions	1	per drum		\$ 343.00		\$ 343.00	
	Transportation of Oil	VEOLIA Environmental Solutions	1	per load		\$ 700.00		\$ 700.00	
	Disposal of Oil	VEOLIA Environmental Solutions	1	per gal		\$ 0.80		\$ 0.80	
	Man Lift	rental	1	week		\$ 2,000.00		\$ 2,000.00	
9	<b>Demobilization</b>		1	est				<b>Total</b>	<b>\$ 14,744.76</b>
	Site Manager	REACT Contract	4	hr	\$ 66.33			\$ 265.32	
	Health and Safety Officer	REACT Contract	8	hr	\$ 59.81			\$ 478.48	
	Laborer	REACT Contract	16	hr	\$ 56.55			\$ 904.80	
	Operator	REACT Contract	16	hr	\$ 68.51			\$ 1,096.16	
	Heavy Equipment Demob	est	1	each		\$ 12,000.00		\$ 12,000.00	

Project Sub-Total: \$ 1,595,865.06 \$ 1,595,865.06  
 Subcontractor Total Cost: \$ 100,975.00  
 Subcontractor Mark-up: \$ 6,919.50  
**PROJECT TOTAL \$ 1,602,784.56**

Steel Recovery	Grossman Steel and Iron	3700 tons	\$ 290.00	\$ 1,073,000.00
<b>Total Project Cost after Steel Recovery</b>				<b>\$ 529,784.56</b>



## Attachment B: Eagle Zinc Schedule

Task Name	Duration	Jun 11, '08	Jun 18, '08	Jun 25, '08	Jul 2, '08	Jul 9, '08	Jul 16, '08	Jul 23, '08	Jul 30, '08	Aug 6, '08	Aug 13, '08	Aug 20, '08	Aug 27, '08	Sep 3, '08	Sep 10, '08	Sep 17, '08
Item 1: Mob Site Prep	5 days															
Item 2: Building Asbestos Abatement	9 days															
Item 3(A): Rotary Kiln Buildings A	17 days															
Item 3(B): Rotary Kiln Buildings B	13 days															
Item 4: Removal of Rail Lines	17 days															
Item 5: Removal of Misc Steel Buildings	30 days															
Item 6: Removal of Bag House	20 days															
Item 7: Removal of Brick Buildings	20 days															
Item 8: Cleaning of ASTs	5 days															
Item 9: Demobilization	2 days															



Environmental Consulting & Contracting

Waste Management  
24-hour Service  
Site Remediation  
Environmental Audits

Tank Removal/Cleaning  
Air Monitoring  
Spill Response  
RCRA Closures

May 20, 2008

Mr. Clarence Smith  
Illinois Environmental Protection Agency  
Bureau of Land  
1021 North Grand Ave., East  
Springfield, Illinois 62794

**RECEIVED**

MAY 21 2008

**SECURITY DESK**

Re: Work Order and Cost Proposal  
Structure Removal  
Eagle Zinc Superfund Site  
Bodine Proposal #08-0821

1358070001/Montgomery  
Eagle Zinc/Hillsboro  
Superfund/Fiscal

Mr. Smith:

Bodine Environmental Services, Inc. (Bodine) is pleased to provide the enclosed Proposal Work Plan and Cost Proposal for Structure Removal at the Eagle Zinc Superfund Site in Hillsboro, Illinois. The document was prepared in accordance with the Illinois Environmental Protection Agency (Illinois EPA), Corrective Action Contractor Contract HWA-6303, Work Order 21.

Bodine is proposing to utilize Brandenburg Industrial Service Company as a specialized union sub-contractor to perform demolition, segregation, putrescible waste transportation/disposal and scrap/salvage transportation/reclamation. Based upon the scope of the project, Bodine has estimated the duration of on-site activities to be four (4) months.

Thank you for the opportunity to provide the enclosed Proposal Work Plan and Cost Proposal. If there should be any questions regarding Bodine's approach to implementing the requested services or the proposed costs, please do not hesitate to contact the undersigned.

Respectfully submitted,

**BODINE ENVIRONMENTAL SERVICES, INC.**

Stephen D. Nussbaum, P.E.  
Senior Project Manager

Brett J. Marshall  
Consulting Services Manager

Enclosures: Proposal Work Plan and Cost Proposal (Original and 2 Copies)

**RECEIVED**

MAY 21 2008

**IEPA-BOL-FSRS**

**COPY**



COPY

**Work Order and Cost Estimate Package**

**Structure Removal**

**Eagle Zinc NPL Site – Hillsboro, Illinois**

**LPC #1358070001, Montgomery County**

Prepared for:

Illinois Environmental Protection Agency  
Bureau of Land, Federal Site Remediation Section  
1021 North Grand Avenue East  
Springfield, Illinois 62794-9276

Prepared by:

Bodine Environmental Services, Inc.  
5350 East Firehouse Road  
Decatur, Illinois 62521  
(800) 637-2379

RECEIVED

MAY 21 2008

IEPA-BOL-FSRS

**Bodine Project Number 119855**  
**Bodine Proposal Number 08-0821**

May 20, 2008  
Version 1.0

COPY

## Table of Contents

<u>Section</u>	<u>Page</u>
1.0 BACKGROUND	1
2.0 PROJECT SUMMARY	2
3.0 SUBCONTRACTORS	4
4.0 TREATMENT, STORAGE AND DISPOSAL FACILITIES (TSDFs)	5
5.0 PROJECT ADMINISTRATION	6
6.0 SCOPE OF WORK	8
7.0 PROJECT PERSONNEL	15
8.0 EQUIPMENT	16
9.0 HEALTH AND SAFETY	17

## Appendices

Appendix A	Illinois EPA Work Order and Clarifications
Appendix B	Aerial Photograph
Appendix C	Cost Proposal
Appendix D	Project Assumptions



## 1.0 BACKGROUND

Bodine Environmental Services, Inc. (Bodine) is pleased to provide the Work Order and Cost Proposal for the Structure Removal Activities (Pre-Remedial Action (RA)) for the Eagle Zinc National Priority List (NPL) Site in Hillsboro, Montgomery County, Illinois. The facility has been used for the production of zinc oxide since at least the late 1800's. The Scope of Work (SOW) was developed in accordance with Work Order 21, under the Illinois Environmental Protection Agency (Illinois EPA) Corrective Action Contract HWA-6303 date October 31, 2007. The Work Order requested the development of a Proposal Work Plan (PWP) to undertake cost estimates to remediate the operable unit (an area of approximately 25 acres), known as the Manufacturing and Material Storage Facility Area (MMSFA).

Bodine was instructed to prepare a PWP based upon their on-site facility inspection and related Illinois EPA/USEPA document review that may be necessary to complete the inspection and PWP. The PWP shall outline, task, subtasks, professional personnel levels, hours, labor, travel ODCs, and total costs estimated to remediate the facility buildings and related structures. The SOW indicated the performance of the following tasks:

1. Participate in a conference call(s) with the Illinois EPA to schedule on-site facility building inspections and meeting with Bodine and review facility site maps and site related historical documentation on buildings, related structures and possible contaminants determined to be and/or expected to be on-site;
2. Provide Cost Estimates, in general, to remediate, decontaminate, remove, and dispose of both on-site and off-site all on-site buildings, structures, foundations, storage pads, storm water drainage structures, and related contaminated waste materials. These materials may include decontamination of bricks for reuse and recycle where possible.
3. Provide Cost Estimates to remove and properly dispose of asbestos from the buildings;
4. Provide Cost Estimates to remove and decontaminate salvageable metals from the closed manufacturing facility buildings and structures; and,
5. Provide Cost Estimates to remove and dispose of on-site the zinc oxide and related metals slag materials and contaminated soils from among the buildings, as well as the building's concrete, bricks, metals, and related building wastes for on-site disposal.

## 2.0 PROJECT SUMMARY

As indicated in Section 1.0, Bodine has utilized Work Order 21, Corrective Action Contract HWA-6303 as the basis for the preparation of the Proposal Work Plan and Cost Proposal. Bodine participated in site inspection activities on April 30<sup>th</sup> and May 1<sup>st</sup>. In addition, an electronic mail message containing additional clarifications was received from the Illinois EPA on May 14, 2008.

Based upon the scope of the project, Bodine will enter into a sub-contract agreement with Brandenburg Industrial Service Company headquartered in Chicago, Illinois. Brandenburg is a union contractor specializing in demolition and salvage of large and complicated structures. Brandenburg was awarded the demolition portion of the Soldier Field renovation in downtown Chicago. Bodine will utilize Brandenburg to remove structures, separate putrescible wastes, non-putrescible wastes and scrap. Brandenburg will provide transportation and off-site disposal of putrescible wastes and transportation and salvage of scrap materials.

Bodine will perform all activities other than the specialized structure removal and segregation of materials. Bodine will perform decontamination of the salvage materials using a "dry ice" blasting system to minimize the generation of liquid wastes. All decontamination activities will be performed in centralized locations based upon the location of the structures being removed. Bodine will transport non-putrescible wastes to the locations specified by the Illinois EPA and spread the materials within the boundary of the fill area. Bodine will maintain on-site facilities and provide on-site project management for the four (4) months estimated to complete the on-site project activities.

Bodine will perform project management activities associated with pre-mobilization activities; coordination with the Illinois EPA, preparation and submission of documents for Illinois EPA approval and other activities not directly associated with the management of daily on-site project activities. Bodine will also provide perimeter air monitoring and personal air monitoring as needed during the project to document exposures associated with personnel on-site and document the upwind and downwind air concentrations for site-related contaminants.

Based upon the site inspection, additional information provided by the Illinois EPA and coordination with Brandenburg, Bodine is proposing the following project Scope of Work:

1. Prepare and Submit Field Sampling Plan and Quality Assurance Project Plan for Illinois EPA Approval;
2. Prepare and Submit Project Implementation Plan (PIP) and Health and Safety Plan (HSP) for Illinois EPA approval;



3. Prepare and Submit Construction Storm Water Pollution Prevention Plan and Other Plans/Specifications for Illinois EPA Approval;
4. Perform an Asbestos Inspection and Submit Notification of Renovation/Demolition to Illinois EPA-Bureau of Air;
5. Perform Waste Profile Sampling, Analysis and Profile Approval Associated with All Waste Streams for Off-Site Disposal/Treatment;
6. Perform JULIE/Private Utility Locates and On-site Project Administration Facilities, Equipment and Materials for the 4-Month Project Duration;
7. Project Administration Activities for Mobilization, On-site and Demobilization;
8. Mobilization of Personnel, Equipment, Materials and Sub-Contractor;
9. Asbestos Abatement and Disposal Associated with the Supply Building (air cell);
10. Perform Perimeter Air Monitoring and Health and Safety Monitoring as Required During On-Site Activities;
11. Rail Track and Ties - Removal, Disposal and Scrap;
12. Group 1 Structures - Removal, Disposal and Scrap;
13. Group 2 Structures - Removal, Disposal and Scrap;
14. Group 3 Structures - Removal, Disposal and Scrap;
15. Group 4 Structures - Removal, Disposal and Scrap;
16. Perform Project Completion On-Site Inspection and Closeout Activities as Identified by Illinois EPA;
17. Demobilization of Personnel, Equipment, Materials and Sub-Contractor; and,
18. Prepare and Submit a Project Completion Report.

### 3.0 SUBCONTRACTORS

Based upon the SOW, Bodine anticipates using subcontractors to perform some of the activities associated with the Project. In the event other subcontractors are required, Bodine would provide the appropriate contact information and WBE/MBE status. The Cost Proposal contains information and pricing from the following sub-contractors:

Service	Subcontractor	MBE/WBE Status
Electrical	One of three Hillsboro electrical contractors to be determined based upon project requirements/scheduling.	NO
On-Site Utility Locating	Damage Prevention Solutions, LLC 1224 West Edwards Street Springfield, Illinois 62704 (217) 971-5929	NO
Site Security	Trying to Locate WBE/MBE at this time. Used prevailing wage to determine unit rates.	WBE?
Demolition and Salvage Services	Brandenburg Industrial Service Company 2625 South Loomis Street Chicago, Illinois 60608-5414 (312) 326-5800	NO

#### **4.0 TREATMENT, STORAGE AND DISPOSAL FACILITIES (TSDFs)**

##### Non-Hazardous Water Treatment/Disposal

Discharge to On-Site Surface Water Retention Ponds

##### Non-Hazardous, Special Waste Disposal (Rail Ties and Putrescible Demo Debris)

Envotech Landfill  
2782 Landfill Trail  
Litchfield, Illinois 62056  
(217) 324-2811

##### Asbestos Contaminated Materials-Non-Hazardous, (Air Cell, Supply Building)

Envotech Landfill  
2782 Landfill Trail  
Litchfield, Illinois 62056  
(217) 324-2811

##### Non-Hazardous, Non-Special (Non-Putrescible Demo Debris)

On-Site Fill Area



## **5.0 PROJECT ADMINISTRATION**

As has been requested in the past, Bodine has provided a breakdown of the items that have been included in the project administration portion of the cost estimate. The items are as follows:

### Project Management Items

In general, activities performed by the project manager are consistent with supervision and performance of specific tasks included in the SOW. On-Site project administration activities have been incorporated into each of the on-site tasks. However, Task 07 has been included to delineate the off-site project administration estimated for the duration of the 4-month on-site activities. The following activities may be considered project administration activities that are not directly associated with the performance of the SOW:

1. Attend meetings with the Illinois EPA and engineer to discuss project;
2. Utility locating and subcontractor coordination;
3. Telephone and conference calls to maintain communication with the Illinois EPA;
4. Prepare cost estimates for unanticipated conditions for Illinois EPA review and approval;
5. Arrange for temporary facilities;
6. Review and approval of sub-contractor invoices;
7. Preparation of invoices;
8. Coordination of laboratory services for sampling events;
9. Data management and data review;
10. Data management; and,
11. Material purchases.

### Temporary Facilities

While not specified in the PWP, Bodine has included the provision of on-site temporary services for the estimated 4-months of on-site activities. Bodine shall provide temporary facilities to include a Construction Trailer, Temporary Electrical Service, Telephone, Facsimile, Scanner, Internet Access, Potable Water, Portable Sanitary Facilities and Office Supplies.

### Demobilization

At the close of the project, Bodine will conduct the below items. In addition, a meeting will be scheduled to insure that all punch list items are completed to the Illinois EPA's satisfaction.

1. Submission of Waste Manifests,

Illinois EPA, Work Order & Cost Proposal  
Structure Removal  
Eagle Zinc NPL Site, Hillsboro, Illinois

Bodine Project Number 119855  
HWA-6303, Proposal No. 08-0821  
May 20, 2008

2. Removal of any temporary facilities,
3. Decontamination of equipment; and,
4. Submission of project documentation.

## 6.0 SCOPE OF WORK

For the purposes of the PWP and Cost Proposal, Bodine has proposed on-site activities for the Project to be approximately four (4) months. For the purposes of the Cost Proposal, Bodine has utilized the current hourly rates established under the Corrective Action Contractor Contract HWA-6303.

### Task 01 – Prepare & Submit Field Sampling Plan (FSP)/Quality Assurance Project Plan (QAPP) for Illinois EPA Approval

Bodine proposes to utilize a Licensed Professional Engineer that has participated in the U.S. EPA Remedial Project Manager's QAPP Training Course to be the lead in preparation of the QAPP. In the event a previous version of a QAPP has been approved for the site, Bodine would propose to submit an addendum, rather than developing a new QAPP. Document preparation is estimated to require thirty (30) days for Bodine personnel. The length of time for review and approval of submitted documents is not within the control of Bodine to estimate.

### Task 02 – Prepare & Submit Project Implementation Plan (PIP) and Health & Safety Plan (HSP) for Illinois EPA Approval

For previous corrective action projects, Bodine has been required to prepare and submit a construction operations plan or other project work plan that outlines the tasks, locations, traffic controls and numerous other provisions/specifications for the completion of each task. Typically, there are engineering specifications associated with remedial projects. In this case, there are no engineering specifications and therefore even more critical that the Illinois EPA reviews and approves a detailed work plan prior to mobilization to the site. Bodine, in coordination with Brandenburg, will prepare and submit a PIP for this project consistent with the formats prepared for other NPL Sites. A HSP will be prepared by Bodine in coordination with Brandenburg and submitted to the ILLINOIS EPA for review and approval/comment. These tasks will be concurrent and are estimated to require forty five (45) days for completion. The length of time for review and approval of submitted documents is not within the control of Bodine to estimate.



Task 03 – Prepare and Submit National Pollution Discharge Elimination System (NPDES) Construction Storm Water Pollution Prevention Plan (SWPPP) and Other Plans/Specifications Required by Illinois EPA

Since project activities will impact more than one (1) acre, a Construction SWPPP will be prepared and submitted for Illinois EPA approval, but no fees, nor permit, will be applicable. The Construction SWPPP will identify the engineering controls and activities to prevent, or minimize, pollution resulting from storm water in accordance with State and Federal regulations. The preparation of the Construction SWPPP is estimated to require twenty (20) days for completion. The length of time for review and approval of submitted documents is not within the control of Bodine to estimate.

Task 04 – Asbestos Inspection and Notification of Renovation/Demolition

During the site inspection, Bodine identified air cell pipe insulation in the boiler area of the Supply Building. Likely materials containing asbestos would be roofing materials, pipe insulation not visible during inspection, insulation and gaskets associated with kilns/ovens, flooring tiles and other building materials. Under the National Emissions Standards for Hazardous Air Pollutants (NESHAP) standards, a complete asbestos inspection of all structures to be renovated or demolished is required. Bodine is proposing to utilize Illinois Department of Public Health (IDPH) licensed Asbestos Inspectors to complete the inspection and prepare the notification. Bodine estimates this task to require three (3) ten hour days for a project manager and field supervisor to properly inspect all of the structures, collect samples and submit the samples for laboratory analysis using the point count method (PCM). Collection, shipment, analysis and reporting of up to one hundred (100) discrete samples have been included in the estimate. Following receipt of the laboratory report, Bodine will prepare and submit an asbestos inspection report for Illinois EPA review and approval. The duration of the task is estimated to require thirty (30) days. The length of time for review and approval of submitted documents is not within the control of Bodine to estimate.

Task 05 – Waste Sampling, Analysis and Profile Approval by TSDF for Off-Site Waste Disposal

Based upon inspection and additional clarification received from Illinois EPA, Bodine has assumed no hazardous waste (listed or characteristic) will be managed during project activities. However, the National Contingency Plan (NCP), Subsection 300.440 a) 4) requires USEPA Regional Administrator approval of the receiving facility. At this time, Bodine has coordinated with Brandenburg and Allied Waste to combine demolition debris with the rail ties as one waste stream requiring one waste

stream approval. While Bodine believes the waste stream can be approved as a Special Waste for disposal at the Envotech landfill, the cost to obtain one (1) representative sample for waste profile laboratory analysis has been included in the Cost Proposal. If waste profile sampling were not required, the cost to obtain and analyze the sample would be removed from the project cost.

Task 06 – JULIE/Private Utility Locates and On-Site Project Equipment, Direct & Material Expense (not itemized on other tasks)

This task includes the use of a private utility locating firm and JULIE notification a minimum of two (2) weeks prior to mobilization to the Site. Bodine personnel will be available to conduct joint meets and other coordination activities at the Site. In addition to utility locating, Bodine has included on-site equipment, materials and direct costs associated with provision of the temporary facilities specified in Section 5.0. The duration of the on-site activities has been estimated at four (4) months. Bodine intends to maintain a sub-meter accurate Trimble Unit on-site for the duration of the Project to document coordinates of existing structures, boundaries of fill area, additional items discovered during removal of structures and remaining site features as directed by Illinois EPA. These coordinates will be labeled and maintained in electronic format for use as geo-reference points.

Task 07 – Project Administration for Mobilization, On-Site and Demobilization Activities

Bodine has included this task to itemize project administration activities, which are not directly associated with on-site activities. These activities are most likely performed at Bodine's Decatur, Illinois facility and have been discussed in Section 5.0. Hours for clerical, field supervisor, project manager and health and safety officer have been specified in the Cost Proposal.

Task 08 – Mobilization of Personnel, Equipment and Materials

This task incorporates the mobilization of personnel, equipment and materials to the site by Bodine. The cost to set-up the temporary construction trailer Activities performed by Bodine personnel with Bodine equipment and materials required to complete each task have been included under the applicable task.

Task 09 – Asbestos Abatement - Removal, Transportation and Disposal (Supply Building)

The results of the Asbestos Inspection will document the presence and category of asbestos containing materials (ACM) associated with the structures. At this time, air

cell pipe insulation was observed in the Supply Building. Asbestos abatement activities included in the cost proposal are associated with the Supply Building only.

Task 10 – Health and Safety and Perimeter Air Monitoring

Since the Project involves the removal of structures on an NPL Site, Bodine believes that perimeter air monitoring should be performed during on-site activities. Bodine proposes to utilize a combination of ambient air monitors and low-flow air samplers at four (4) perimeter locations, one of which shall serve as background or up-wind. Complete information regarding site-related compounds that may be encountered during the Project is not yet available. However, it is clear that PM10, Zinc, Chromium, Copper and Lead may be included on the list of parameters for air monitoring.

Since Bodine and Sub-Contractor personnel will undertake a variety of activities during the Project, Bodine will also be performing personal air sampling to determine the appropriate level of PPE is utilized. At this time, Bodine anticipates a personnel performing decontamination of the scrap and other materials will be in Level C using a full-face respirator with HEPA/metals cartridges. Personnel in enclosed cabs involved in the removal of structures and transportation of materials are assumed to be in modified Level D, with no respiratory protection. Details regarding PPE selection and criteria will be provided in the HSP.

Task 11 – Rail Track and Tie – Removal, Disposal and Scrap

The removal of above-grade structures was divided into five (5) groups; Rail Track and Ties and Group 1 through 4 Structures. The linear feet of rail track and ties was estimated to be 6,017 feet from the aerial photograph, Appendix B. Assuming normal spacing of ties and estimated weight for weathered track, the following quantities were estimated:

- ❑ Putrescible Waste – 360 tons of ties
- ❑ Non-Putrescible Waste – 0 cubic yards
- ❑ Scrap Steel – 255 net tons

Bodine proposes to utilize Brandenburg to perform all of the demolition, segregation, transportation/disposal of putrescible waste and scrap transportation/reclamation. Bodine personnel will include 2 Cleanup Technicians, 1 Driver and 1 Operator for five (5), ten (10) hour working days. On-site project management and supervision will include three (3) days for a Field Supervisor and two (2) days for a Project Manager.



Task 12 – Group 1 Structures - Removal, Disposal and Scrap

Group 1 Structures include the southern buildings in the southern portion of the Site: Loafing Shed, U-Shaped Building, Supply Building, South Supply Buildings and the Sulfuric Acid Building (see Appendix B). This does not include the Administration Building or Main Office Building. Based upon the site inspection and aerial photograph, the following quantities were estimated:

- ❑ Putrescible Waste – 340 tons
- ❑ Non-Putrescible Waste – 1,420 cubic yards
- ❑ Scrap Steel – 24 net tons

Bodine proposes to utilize Brandenburg to perform all of the demolition, segregation, transportation/disposal of putrescible waste and scrap transportation/reclamation. Bodine personnel will perform decontamination of scrap and other materials using dry ice, maintaining the water truck to minimize wind blown particulate matter, transportation of the non-putrescible waste to the fill area and spreading of the fill materials. Bodine personnel will include 2 Cleanup Technicians, 1 Driver and 1 Operator for five (5), ten (10) hour working days. On-site project management and supervision will include three (3) days for a Field Supervisor and two (2) days for a Project Manager.

Task 13 – Group 2 Structures - Removal, Disposal and Scrap

Group 2 Structures include the western buildings in the central portion of the Site: Main Rotary Kiln Building, attached Storage Buildings, Smoke Stack and outer concrete bin walls (see Appendix B). Based upon the site inspection and aerial photograph, the following quantities were estimated:

- ❑ Putrescible Waste – 185 tons
- ❑ Non-Putrescible Waste – 3,812 cubic yards
- ❑ Scrap Steel – 648 net tons

Bodine proposes to utilize Brandenburg to perform all of the demolition, segregation, transportation/disposal of putrescible waste and scrap transportation/reclamation. Bodine personnel will perform decontamination of scrap and other materials using dry ice, maintaining the water truck to minimize wind blown particulate matter, transportation of the non-putrescible waste to the fill area and spreading of the fill materials. Bodine personnel will include 4 Cleanup Technicians, 1 Driver and 1 Operator for twenty five (25), ten (10) hour working days. On-site project

management and supervision will include twenty five (25) days for a Field Supervisor.

Task 14 – Group 3 Structures - Removal, Disposal and Scrap

Group 3 Structures include the buildings in the northwestern portion of the Site: Loading Building, Storage Building and sidewalls of a former building (see Appendix B). Based upon the site inspection and aerial photograph, the following quantities were estimated:

- ❑ Putrescible Waste – 41 tons
- ❑ Non-Putrescible Waste – 1,189 cubic yards
- ❑ Scrap Steel – 46 net tons

Bodine proposes to utilize Brandenburg to perform all of the demolition, segregation, transportation/disposal of putrescible waste and scrap transportation/reclamation. Bodine personnel will perform decontamination of scrap and other materials using dry ice, maintaining the water truck to minimize wind blown particulate matter, transportation of the non-putrescible waste to the fill area and spreading of the fill materials. Bodine personnel will include 4 Cleanup Technicians, 1 Driver and 1 Operator for five (5), ten (10) hour working days. On-site project management and supervision will include five (5) days for a Field Supervisor.

Task 15 – Group 4 Structures - Removal, Disposal and Scrap

Group 4 Structures include northeast Oven Building, Fan Buildings 1 through 4, Center Building with outdoor hopper structure, Fan Belt Building, American Kiln Building, American Kiln Support Building including attached Butler Building and Two-Story Warehouse, Southeast Hopper Building Southeast Open Hoppers, Southeast Kiln Building, Sulfuric Acid AST and Other AST on piers, Site Duct Conveyor between Main Rotary Kiln Building and Fan Buildings, and utility poles (see Appendix B). Based upon the site inspection and aerial photograph, the following quantities were estimated:

- ❑ Putrescible Waste – 519 tons
- ❑ Non-Putrescible Waste – 4,415 cubic yards
- ❑ Scrap Steel – 648 net tons

Bodine proposes to utilize Brandenburg to perform all of the demolition, segregation, transportation/disposal of putrescible waste and scrap transportation/reclamation. Bodine personnel will perform decontamination of scrap and other materials using dry





ice, maintaining the water truck to minimize wind blown particulate matter, transportation of the non-putrescible waste to the fill area and spreading of the fill materials. Bodine personnel will include 4 Cleanup Technicians, 1 Driver and 1 Operator for forty (40), ten (10) hour working days. On-site project management and supervision will include thirty (30) days for a Field Supervisor and ten (10) days for a Project Manager.

Task 16 – Perform Project Completion On-Site Inspection and Closeout Activities

This task includes on-site activities to complete a project closeout technical inspection with Illinois EPA project personnel. During the inspection a punch list will be prepared to identify and assign all of the remaining on-site activities required to be completed prior to demobilization of personnel, equipment, materials and removal of temporary services. One week has been assigned to complete the punch list items to enable a final inspection by Illinois EPA personnel. For this proposal, Bodine has assumed that one week, five (5) working days will be devoted to completion of the remaining on-site activities. Bodine personnel will include 2 Cleanup Technicians and 1 Operator for five (5), ten (10) hour working days. On-site project management and supervision will include two (2) days for a Field Supervisor and five (5) days for a Project Manager.

Task 17 – Demobilize Personnel, Equipment and Materials

All personnel, equipment, materials and temporary services will be demobilized from the Site. Bodine has estimated the task duration to be five (5) working days. Sub-contractor costs for demobilization activities have been included in the Cost Proposal.

Task 18 – Prepare and Submit Project Completion Report

Bodine has incorporated personnel hours to prepare and submit project documents to Illinois EPA for approval. A Project Closeout Report will be prepared and include brief narrative of the activities undertaken on a daily/weekly basis, quantities, figures, tables, manifests, health and safety forms, SWPPP inspection forms, photograph logs. A format for the Project Closeout Report will be submitted with the PIP, prior to the beginning of the Project.

## 7.0 PROJECT PERSONNEL

The following is a list of personnel anticipated to be utilized on the project. Personnel assigned to the project shall be dedicated for this project. An alternate project manager has been assigned for backup purposes. His responsibilities shall include office support, emergency replacement, etc.

### Key Project Position

Project Coordinator	.	.	.	.
Project Manager	.	.	.	.
Project Chemist	.	.	.	.
Alternate Project Mgr	.	.	.	.
Field Supervisor	.	.	.	.
Safety Manager	.	.	.	.
Clerical	.	.	.	.

### Project Personnel

Brett J. Marshall
Stephen D. Nussbaum, P.E.
Aaron Kinkelaar
Richard Evey
Ben Massey
David Yates
Staffing as appropriate

### Trade Personnel

Operators - 1  
Laborers - 4  
Drivers - 1

Personnel shall be added to the project as needed to ensure production schedules are maintained.

## **8.0 EQUIPMENT**

The complete list of equipment and materials will be provided in the PIP. The equipment and materials estimated for the project have been incorporated into the Cost Proposal and the unit rates have been obtained from the ECHOS Unit Cost Database, 2006. Cost for materials and equipment not contained in ECHOS have been provided at Bodine's 2008 unit rates. The individual task cost summaries include, equipment, ECHOS reference numbers and ECHOS unit costs as line items in each task specified in the SOW.



## 9.0 HEALTH AND SAFETY

Health and Safety issues are paramount for Bodine. Safety issues include physical hazards associated with working around heavy equipment, severe weather conditions and lifting of materials and equipment operations during site-related activities. Explosion hazards will be associated with the removal of the Smoke Stack structure. Chemical hazards include respiration and ingestion of site-related metals compounds as particulate matter. Additional hazards include respiration of particulate matter of 10-micron size and histoplasmosis from bird wastes. Bodine has included safety management hours for instruction and safety assessments during the project.

The Bodine companies maintain six (6) full time safety personnel that assist with training, site safety meetings, regulatory interpretation, preparation of Health and Safety Plans, personal air sampling and project inspections. Bodine not only provides a variety of OSHA training for it's own personnel, but also for other governmental, municipal and industrial personnel. A Bodine Safety Manual has been provided on previous projects, which will be strictly enforced on this project. For on-site activities, daily tailgate safety meetings will be conducted to discuss the activities of the day, potential hazards, personal protective hazards and air monitoring.

Mr. David Yates, PhD, is a Certified Safety Professional (CSP) with over 25 years of experience, and shall be responsible for assisting in the development of a Site-Specific Health and Safety Plan. Mr. Yates will also be responsible for working with Bodine's on-site Project Manager/Field Supervisor in preparing for the tail gate safety meetings, reviewing on-site safety issues and discussing the required levels of personal protective equipment required for the project. Although it is not anticipated that Mr. Yates will be on-site during the Project, he be on-site routinely to perform personal and perimeter air sampling. He will be very involved with the overall activities of the safe operations of heavy equipment, chemical exposure, insuring Bodine's Safety Manual provisions are met and assisting the Project Manager with any safety issues.

Normal work activities associated with this project are proposed to be performed in Level D personal protective equipment (PPE). Specific tasks, such as decontamination of scrap and other materials with dry ice will be performed in Level C PPE. On-site personal monitoring will be used to up-grade or down-grade levels of PPE. The minimum level of PPE during on-site working hours will require hard hats, steel toe work boots, safety glasses and hearing protection, where required.

Bodine will work closely with the ILLINOIS EPA's representative to insure that the project is conducted in a safe manner not only for work personnel, but also for other individuals entering the site. Un-authorized or untrained personnel will not be allowed to enter the work zones.



Illinois EPA, Work Order & Cost Proposal  
Structure Removal  
Eagle Zinc NPL Site, Hillsboro, Illinois

Bodine Project Number 119855  
HWA-6303, Proposal No. 08-0821  
May 20, 2008

## Appendix A

### ILLINOIS EPA Work Order and Clarifications



**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**  
**CONTRACT FOR SERVICES**  
**WORK ORDER 21**

The Illinois Environmental Protection Agency ("Agency") and Bodine Environmental Services, whose address is 5350 East Firehouse Road, Decatur, Illinois 62521-9601, have entered into a Contract for Services HWA-6303 ("Contract"), dated July 28, 2005, which provides for the use of Work Orders to effectuate the provisions of that contract. This Work Order assigns the following tasks and responsibilities to the parties as described below:

Work Order Task(s)

The Contractor will develop a Proposal Work Plan (PWP) to undertake cost estimates to remediate the manufacturing and material storage facility at the Eagle Zinc NPL Site, Hillsboro, Montgomery County, Illinois.

Compensation for such tasks shall not exceed \$10,000.00.

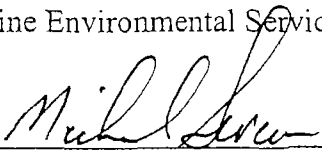
Work Order requirements and compensation shall be in accordance with the attached exhibits, listed below:

Exhibit(s):

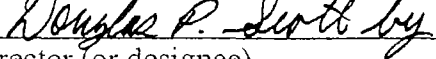
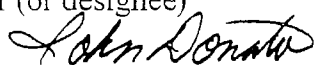
Exhibit 1: Agency's Scope of Work dated September 28, 2007

IN WITNESS WHEREOF, the parties hereto have caused this work order to be executed by their duly authorized representatives this 31st day of October, 2007.

Bodine Environmental Services

By 

Illinois Environmental Protection Agency

By   
Director (or designee)  


INTRA-AGENCY CONCURRENCE:

  
Bureau Chief/Division Manager (or designee)



# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 - (217) 782-3397  
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601 - (312) 814-6026

ROD R. BLAGOJEVICH, GOVERNOR

DOUGLAS P. SCOTT, DIRECTOR

Exhibit 1 of Work Order 21  
consisting of 2 pages.

## MEMORANDUM

DATE: September 28, 2007

TO: Richard Amoako, BOL/Planning and Reporting Unit

FROM: <sup>RSL</sup>  
Rick Lanham, NPL Unit

SUBJECT: 1358070001 - Montgomery Co.  
Eagle Zinc NPL Site, Hillsboro, IL  
Superfund/Fiscal

Please Process a work order for the contractor, Bodine Environmental Services, Inc. ("Bodine"), not to exceed the amount of \$10,000 for the following Scope of Work (SOW). This work order is to be used by Bodine to develop a Proposal Work Plan (PWP) to undertake cost estimates to remediate the operable unit (an area of approx. 25 + acres), known as the manufacturing and material storage facility area. The manufacturing and materials storage area include the Eagle Zinc site's buildings and related structures used for product manufacturing and materials storage, including the storm water retention system, and the contaminated waste materials in and among the buildings and related structures. The amount of this work order is to be deducted from the Hazardous Waste Fund.

Bodine, the contractor, shall prepare a PWP based on their on-site facility inspection and related Illinois EPA/USEPA document review that may be necessary to complete the inspection and PWP. The PWP shall outline the tasks, subtasks, professional personnel levels, hours, labor, travel, ODCs, and total costs estimated to remediate the facility buildings and related structures.

The PWP tasks for Bodine to undertake include the following:

1. Participate in a conference call(s) with the Illinois EPA to schedule on-site facility building inspections and meeting with Bodine and review facility site maps and site related

site related historical documentation on buildings, related structures and possible contaminants determined to be and/or expected to be on-site;

2. Provide Cost Estimates, in general, to remediate, decontaminate, remove, and dispose of both on-site and off-site all on-site buildings, structures, foundations, storage pads, storm water drainage structures, and related contaminated waste materials. These materials may include decontamination of bricks for reuse and recycle where possible;
3. Provide Cost Estimates to remove and properly dispose of asbestos from the buildings;
4. Provide Cost Estimates to remove and decontaminate salvageable metals from the closed manufacturing facility buildings and structures; and
5. Provide Cost Estimates to remove and dispose of on-site the zinc oxide and related metals slag materials and contaminated soils from among the buildings, as well as the building's concrete, bricks, metals, and related building wastes for on-site disposal.

The rates, costs and mathematics have been checked and found to be accurate.

Signed/Initials CC Date 10/10/07



**Brett Marshall**

**From:** Smith, Clarence [Clarence.Smith@Illinois.gov]  
**Date:** Wednesday, May 14, 2008 12:04 PM  
**To:** bmarshall@bodineservices.com; Stewart E. Ryckman  
**Cc:** Ayers, Terry; Lanham, Rick; Smith, Clarence; King, Gary  
**Subject:** Eagle Zinc NPL Site RAC Question Responses

We have received the following questions points of understanding from REACT regarding the Eagle Zinc NPL Site evaluation that took place on Wednesday April 30, 2008. These are the only questions that we have received to date.

The points of understanding are:

1. The cost estimate to be submitted will include the demolition of the major structures, ancillary steel and metal structures, smokestack and on-site disposal of all materials except asbestos containing materials.

Illinois EPA Response: This is correct, with the exception of any putrescible waste generated in the demolition.

2. Removed from the scope (as identified in the Oct. 25, 2007 scope of work) are the following:
  - a. Foundations, storage pads, and storm water drainage structures;
  - b. Remove and dispose of on-site the zinc oxide and related metals slag materials and contaminated soils from among the buildings.

Illinois EPA Response: This is correct.

3. Demolition of major structures includes the removal of equipment and structure to grade or to top the slab.

Illinois EPA Response: This is correct.

4. The scope does not include estimated costs for the consolidating and on-site disposal of the slag or other site remediation tasks.

Illinois EPA Response: This is correct.

5. Remove/Salvage of the existing rail lines are included in the scope.

Illinois EPA Response: This is correct. We have been in contact with the Union Pacific Railroad and it is our understanding from the railroad that Eagle Zinc owned all trackage from the secondary switch into the facility. Our contact with the Union Pacific Railroad is Bill Brindel, 314-288-5278 or 618-286-0448. Footage from the various lines can be calculated from aerial photographs.

6. Salvage scrap value will be calculated based on an estimate of total tonnage generated by the bidding contractors with a benchmark cost for scrap designated.

Illinois EPA Response: This is correct.

5/21/2008

7. In situations where demolition to the building slab would remain above grade following demolition of the structure, the slab/foundation will not be removed.

Illinois EPA Response: This is correct.

8. In situations where a wall (concrete, brick, cinderblock, etc.) extends above the slab, the wall will be removed to grade.

Illinois EPA Response: This is correct.

9. The on-site disposal area is the eastern portion of the site.

Illinois EPA Response: At present, the disposal area has not been determined. It is anticipated that the primary area will be west half of the center portion of the northern leg of the site. Imagine if you will a reversed letter L, with the top being north, and the bottom part pointing west and you have a good layout of the site.

The questions are:

1. Is there any acid, oil or sludge remaining in the two Above Ground Storage Tanks or is there an assumed volume we should use?

Illinois EPA Response: These are unknown quantities and should be left as an open cost item.

2. Does Illinois EPA have a time frame for project completion?

Illinois EPA Response: Not at present. The timeframe for moving forward depends on funding availability.

3. Is the office building included in the demo?

Illinois EPA Response: No, the office building is to remain, at the request of the City of Hillsboro.

4. Is the scale to be removed?

Illinois EPA Response: All three scales on-site are to be removed.

5. After removal of the rails, are the railroad ties to be removed? If yes, are they to be disposed of on-site?

Illinois EPA Response: All ties are to be removed from the ground. Those not suitable for reuse as landscaping timbers should be bundled, considered solid waste and disposed of off-site. Use as an alternative fuel source is also an acceptable alternative.

6. Are the power poles to be removed? If so, are they to be disposed of on-site?

Illinois EPA Response: All utility poles are to be removed from the ground. Those not suitable for reuse as landscaping timbers should be considered solid waste and disposed of off-site. Use as an alternative fuel source is also an acceptable alternative.

Is the debris from the major structure demolition to be segregated (i.e. concrete, brick, wood, general debris)?

Illinois EPA Response: Yes, debris should be segregated into putrescible and non-putrescible categories. All building materials that are to be recycled (i.e., bricks and steel) should be segregated from these categories.

8. What is the final grade or appearance of the on-site disposal area? Is the debris to be covered with soil? If so, is borrow available on the site? Is it to be seeded?

Illinois EPA Response: All putrescible wastes should be removed from the site. All recyclable materials should be removed from the site. All slabs should be at grade, except as described above. The site is not to be covered or reseeded.

9. When do the reports from the contractors need to be submitted to Illinois EPA?

Illinois EPA Response: Illinois EPA must submit the results of the inspection to the Circuit Court by Friday, May 23, 2008. The submissions from the contractors should be submitted to Illinois EPA by COB on Wednesday, May 21, 2008.

If there should be any further questions, please let me know. If not, we look forward to your submissions on Wednesday, May 21, 2008.

Respectfully,

Clarence L. Smith, Manager  
Federal Site Remediation Section  
Division of Remediation Management  
Bureau of Land

Illinois Environmental Protection Agency  
1021 North Grand Avenue, East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

"Life has no meaning. It is part of the natural world around us - life comes and goes. But lives can have meaning. If everybody focused on what they can do, the world would be a very different place."

/s/ Craig Venter

5/21/2008

Illinois EPA, Work Order & Cost Proposal  
Structure Removal  
Eagle Zinc NPL Site, Hillsboro, Illinois

Bodine Project Number 119855  
HWA-6303, Proposal No. 08-0821  
May 20, 2008

## Appendix B

### Aerial Photograph



Illinois EPA, Work Order & Cost Proposal  
Structure Removal  
Eagle Zinc NPL Site, Hillsboro, Illinois

Bodine Project Number 119855  
HWA-6303, Proposal No. 08-0821  
May 20, 2008

## Appendix C

### Cost Proposal

IEPA Cost Proposal - Structure Removal Project  
Eagle Zinc NPL Site, Hillsboro, Illinois  
Bodine Environmental Services, Inc.  
Version 1.0, May 19, 2008

TASK	TASK DESCRIPTION	TASK DURATION (Cal. Days)	PERSONNEL	EQUIPMENT	MATERIALS	DIRECT COSTS & MATERIAL PURCHASES	SUB CONTRACTOR	SCRAP CREDIT	HANDLING FEE	TASK SUBTOTAL
Task 01	Prepare & Submit Field Sampling Plan (FSP) & Quality Assurance Project Plan (QAPP) for IEPA Approval	30 days	\$ 7,464.50	\$ 78.38	\$ -	\$ 139.00	\$ -	\$ -	- -	\$ 7,681.88
Task 02	Prepare and Submit Project Implementation Plan (PIP) & Health and Safety Plan (HSP) for IEPA Approval	45 days	\$ 6,723.40	\$ 39.19	\$ -	\$ 122.00	\$ -	\$ -	- -	\$ 6,884.59
Task 03	Prepare and Submit NPDES Construction Storm Water Pollution Prevention Plan & Other Plans/Specifications for IEPA Approval	20 days	\$ 4,076.40	\$ 39.19	\$ -	\$ 122.00	\$ -	\$ -	- -	\$ 4,237.59
Task 04	Asbestos Inspection and Notification of Renovation/Demolition to IEPA-BOA	30 days	\$ 7,877.48	\$ 117.57	\$ -	\$ 1,348.75	\$ -	\$ -	- -	\$ 9,343.80
Task 05	Waste Profile Sampling, Analysis and Profile Approval by TSD for Off-Site Waste Disposal	30 days	\$ 2,265.88	\$ 39.19	\$ -	\$ 834.00	\$ -	\$ -	- -	\$ 3,139.07
Task 06	JULIE/Utility Locates & On-Site Project Equipment, Direct and Materials Expenses (not itemized in other tasks)	120 days	\$ 3,536.44	\$ 12,426.42	\$ 1,185.00	\$ 1,541.00	\$ 33,920.00	\$ -	- -	\$ 52,608.86
Task 07	Project Administration for Mobilization, On-Site and Demobilization Activities.	120 days	\$ 24,775.60	\$ 705.42	\$ -	\$ 2,039.50	\$ 13,000.00	\$ -	- -	\$ 40,520.52
Task 08	Mobilization of Personnel, Equipment and Materials	7 days	\$ 12,271.36	\$ 2,448.90	\$ -	\$ 765.00	\$ -	\$ -	- -	\$ 15,485.26
Task 09	Asbestos Abatement - Removal, Transportation and Disposal (Supply Building)	7 days	\$ 6,384.74	\$ 587.03	\$ 308.14	\$ 815.00	\$ -	\$ -	- -	\$ 8,094.91
Task 10	Health and Safety & Perimeter Air Monitoring	120 days	\$ 5,717.52	\$ 16,397.58	\$ -	\$ 5,707.50	\$ -	\$ -	- -	\$ 27,822.60
Task 11	Rail Track and Ties (Estimate 6,000 linear feet)	7 days	\$ 17,787.90	\$ 5,524.59	\$ 270.05	\$ 2,950.00	\$ 60,260.00	\$ (71,400.00)	- -	\$ 15,392.54
Task 12	Group 1 Structures	15 days	\$ 17,787.90	\$ 7,347.40	\$ 589.90	\$ 3,162.50	\$ 85,095.00	\$ (6,720.00)	- -	\$ 107,262.70
Task 13	Group 2 Structures	35 days	\$ 119,647.10	\$ 39,906.40	\$ 2,605.50	\$ 17,462.50	\$ 282,997.00	\$ (181,440.00)	- -	\$ 281,178.50
Task 14	Group 3 Structures	7 days	\$ 24,564.70	\$ 8,269.40	\$ 589.90	\$ 4,002.50	\$ 44,230.00	\$ (12,880.00)	- -	\$ 68,776.50
Task 15	Group 4 Structures	65 days	\$ 190,694.20	\$ 61,936.50	\$ 4,129.20	\$ 26,282.50	\$ 421,934.00	\$ (443,520.00)	- -	\$ 261,456.40
Task 16	Perform Project Completion On-Site Inspection and Closeout Activities as Identified by IEPA	7 days	\$ 16,782.40	\$ 2,547.20	\$ 1,642.38	\$ 1,620.00	\$ -	\$ -	- -	\$ 22,591.98
Task 17	Demobilization of Personnel, Equipment and Materials	7 days	\$ 10,693.84	\$ 2,448.90	\$ 142.38	\$ 850.00	\$ 13,220.00	\$ -	- -	\$ 27,355.12
Task 18	Preparation and Submission of Project Completion Report	45 days	\$ 10,228.00	\$ 156.76	\$ -	\$ 386.25	\$ -	\$ -	- -	\$ 10,771.01
ALL TASKS	TOTAL PROJECT COSTS	297 days	\$ 489,279.36	\$ 161,016.02	\$ 11,462.45	\$ 70,150.00	\$ 954,656.00	\$ (715,960.00)	\$ 23,993.12	\$ 994,596.95

Per contract, Handling Charges are calculated as \$6,900.00 + 2% of total costs greater than \$100,000.00

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 01	
Unit Rates from HWA-6303 and ECHOS				Prepare & Submit Field Sampling Plan (FSP) & Quality Assurance Project Plan (QAPP) for IEPA Approval	
PERSONNEL		Rate	Units	Est. Units	Est. Cost
Clerical	Straight	\$37.06	hour	10.0	\$370.60
	Overtime	\$52.95	hour		\$0.00
Chemist	Straight	\$68.82	hour	30.0	\$2,064.60
	Overtime	\$90.00	hour		\$0.00
Field Supervisor	Straight	\$79.41	hour	10.0	\$794.10
Project Manager	Straight	\$105.88	hour	40.0	\$4,235.20
<b>TOTAL PERSONNEL</b>					<b>\$7,464.50</b>
EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	2.0	\$78.38
<b>TOTAL EQUIPMENT</b>					<b>\$78.38</b>
DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	8.0	\$34.00
Shipping Charges for Samples/Documents		\$35.00	each	3.0	\$105.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$139.00</b>
<b>TOTAL ESTIMATED COST PER TASK</b>					<b>\$7,681.88</b>

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				<b>Task 02</b> Prepare and Submit Project Implementation Plan (PIP) & Health and Safety Plan (HSP) for IEPA Approval	
		Unit Rates from HWA-6303 and ECHOS			
<b>PERSONNEL</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>
Clerical	Straight	\$37.06	hour	10.0	\$370.60
	Overtime	\$52.95	hour		\$0.00
Field Supervisor	Straight	\$79.41	hour	20.0	\$1,588.20
Project Manager	Straight	\$105.88	hour	30.0	\$3,176.40
Health & Safety Officer	Straight	\$79.41	hour	20.0	\$1,588.20
<b>TOTAL PERSONNEL</b>					<b>\$6,723.40</b>
<b>EQUIPMENT</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>
Service Vehicle/Truck 4x2	33010102	\$39.19	day	1.0	\$39.19
<b>TOTAL EQUIPMENT</b>					<b>\$39.19</b>
<b>MATERIALS</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>
PPE-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair		\$0.00
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair		\$0.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each		\$0.00
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair		\$0.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair		\$0.00
Shower Towels, Disposable	No Echos	\$48.00	case		\$0.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound		\$0.00
Drum Labels/DOT Markers	No Echos	\$1.50	each		\$0.00
Manifests	No Echos	\$7.50	each		\$0.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll		\$0.00
4-mil Poly Sheeting (20' by 100')	No Echos	\$65.00	roll		\$0.00
<b>TOTAL MATERIALS</b>					<b>\$0.00</b>
<b>DIRECT COSTS &amp; FIELD PURCHASES (no markup)</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	4.0	\$17.00
Shipping Charges for Samples/Documents		\$35.00	each	3.0	\$105.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$122.00</b>
<b>TOTAL ESTIMATED COST PER TASK</b>					<b>\$6,884.59</b>

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

				Task 03	
Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Prepare and Submit NPDES Construction Storm Water Pollution Prevention Plan & Other Plans/Specifications for IEPA Approval	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Rate	Units	Est. Units    Est. Cost
Clerical	Straight		\$37.06	hour	10.0    \$370.60
	Overtime		\$52.95	hour	0.0    \$0.00
Field Supervisor	Straight		\$79.41	hour	20.0    \$1,588.20
Project Manager	Straight		\$105.88	hour	20.0    \$2,117.60
<b>TOTAL PERSONNEL</b>					<b>\$4,076.40</b>
EQUIPMENT			Rate	Units	Est. Units    Est. Cost
Service Vehicle/Truck 4x2	33010102		\$39.19	day	1.0    \$39.19
<b>TOTAL EQUIPMENT</b>					<b>\$39.19</b>
MATERIALS			Rate	Units	Est. Units    Est. Cost
PPE-Disposable Nitrile Sample Gloves	33010423		\$0.22	pair	0.0    \$0.00
PPE-Nitrile Work Gloves	No Echos		\$4.00	pair	0.0    \$0.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424		\$6.83	each	0.0    \$0.00
PPE-Disposable PVC Pull-over Booties	No Echos		\$8.00	pair	0.0    \$0.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406		\$15.36	pair	0.0    \$0.00
Shower Towels, Disposable	No Echos		\$48.00	case	0.0    \$0.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos		\$0.30	pound	0.0    \$0.00
Drum Labels/DOT Markers	No Echos		\$1.50	each	0.0    \$0.00
Manifests	No Echos		\$7.50	each	0.0    \$0.00
4-mil Poly Bags (75 count)	No Echos		\$50.00	roll	0.0    \$0.00
4-mil Poly Sheeting (20' by 100')	No Echos		\$65.00	roll	0.0    \$0.00
<b>TOTAL MATERIALS</b>					<b>\$0.00</b>
DIRECT COSTS & FIELD PURCHASES (no markup)			Rate	Units	Est. Units    Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon			\$4.25	gallons	4.0    \$17.00
Shipping Charges for Samples/Documents			\$35.00	each	3.0    \$105.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$122.00</b>
<b>TOTAL ESTIMATED COST PER TASK</b>					<b>\$4,237.59</b>



**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				<b>Task 04</b> <b>Asbestos Inspection and</b> <b>Notification of</b> <b>Renovation/Demolition</b> <b>to IEPA-BOA</b>	
		Unit Rates from HWA-6303 and ECHOS			
<b>PERSONNEL</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>
Clerical	Straight	\$37.06	hour	4.0	\$148.24
	Overtime	\$52.95	hour		\$0.00
Field Supervisor	Straight	\$79.41	hour	40.0	\$3,176.40
Project Manager	Straight	\$105.88	hour	40.0	\$4,235.20
Health & Safety Officer	Straight	\$79.41	hour	4.0	\$317.64
<b>TOTAL PERSONNEL</b>					<b>\$7,877.48</b>
<b>EQUIPMENT</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>
Service Vehicle/Truck 4x2	33010102	\$39.19	day	3.0	\$117.57
<b>TOTAL EQUIPMENT</b>					<b>\$117.57</b>
<b>DIRECT COSTS &amp; FIELD PURCHASES (no markup)</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	15.0	\$63.75
Federal, State, County and Municipal Fees		\$1.00	Units	150.0	\$150.00
Analytical - Asbestos Sample Analysis		\$10.00	each	100.0	\$1,000.00
Sampling Supplies (Sting, Ice, etc.)		\$50.00	each	2.0	\$100.00
Shipping Charges for Samples/Documents		\$35.00	each	1.0	\$35.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$1,348.75</b>
<b>TOTAL ESTIMATED COST PER TASK</b>					<b>\$9,343.80</b>

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Unit Rates from HWA-6303 and ECHOS		Task 05 Waste Profile Sampling, Analysis and Profile Approval by TSDF for Off-Site Waste Disposal	
PERSONNEL		Rate	Units	Est. Units	Est. Cost		
Project Technician, HazMat (Decon steel/structures and others)	Straight	\$58.24	hour	8.0	\$465.92		
	Overtime	\$79.41	hour	2.0	\$158.82		
Field Supervisor	Straight	\$79.41	hour	10.0	\$794.10		
Project Manager	Straight	\$105.88	hour	8.0	\$847.04		
<b>TOTAL PERSONNEL</b>					<b>\$2,265.88</b>		

EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	1.0	\$39.19
<b>TOTAL EQUIPMENT</b>					<b>\$39.19</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost
PPE-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair		\$0.00
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair		\$0.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each		\$0.00
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair		\$0.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair		\$0.00
Shower Towels, Disposable	No Echos	\$48.00	case		\$0.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound		\$0.00
Drum Labels/DOT Markers	No Echos	\$1.50	each		\$0.00
Manifests	No Echos	\$7.50	each		\$0.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll		\$0.00
4-mil Poly Sheeting (20' by 100')	No Echos	\$65.00	roll		\$0.00
<b>TOTAL MATERIALS</b>					<b>\$0.00</b>

DIRECT COSTS & FIELD PURCHASES (no markup)	Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon	\$4.25	gallons	8.0	\$34.00
Analytical - Waste Profile Sample Analysis	\$800.00	each	1.0	\$800.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>				<b>\$834.00</b>

**TOTAL ESTIMATED COST PER TASK** **\$3,139.07**

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 06 JULIE/Utility Locates & On- Site Project Equipment, Direct and Materials Expenses (not itemized in other tasks)	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Est. Units	Est. Cost
Project Technician, HazMat (Decon steel/structures and others)	Straight	\$58.24	hour	8.0	\$465.92
	Overtime	\$79.41	hour	2.0	\$158.82
Field Supervisor	Straight	\$79.41	hour	10.0	\$794.10
Project Manager	Straight	\$105.88	hour	20.0	\$2,117.60
<b>TOTAL PERSONNEL</b>					<b>\$3,536.44</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	2.0	\$78.38
Service Vehicle/Auto	33010108	\$50.27	day	1.0	\$50.27
4x4 Service Vehicle	CODMA	\$10.65	hour	8.0	\$85.20
Temporary Office, 32' x 8'	99140102	\$263.22	month	4.0	\$1,052.88
Temporary Storage Trailer, 16' x 8'	99140201	\$86.10	month	4.0	\$344.40
21,000-gallon Steel Holding Tank	19040407	\$1,297.00	month	4.0	\$5,188.00
GPS, Trimble GH (submeter accuracy)	No EchOS	\$250.00	week	4.0	\$1,000.00
Personal Low Flow Sampling Pump	33 02 0314	\$212.89	month	4.0	\$851.56
Ambient Air Monitor	33 02 0315	\$767.87	month	4.0	\$3,071.48
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day	15.0	\$704.25
<b>TOTAL EQUIPMENT</b>					<b>\$12,426.42</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost
Drum Labels/DOT Markers	No EchOS	\$1.50	each	50.0	\$75.00
Manifests	No EchOS	\$7.50	each	100.0	\$750.00
4-mil Poly Bags (75 count)	No EchOS	\$50.00	roll	2.0	\$100.00
4-mil Poly Sheeting (20' by 100')	No EchOS	\$65.00	roll	4.0	\$260.00
<b>TOTAL MATERIALS</b>					<b>\$1,185.00</b>

DIRECT COSTS & FIELD PURCHASES (no markup)	Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon	\$4.25	gallons	60.0	\$255.00
Utilities (Electric, Phone, Internet)	\$250.00	Est./Month	4.0	\$1,000.00
Hotel	\$70.00	day	1.0	\$70.00
Per Diem	\$28.00	day	2.0	\$56.00
Drinking Water, Job Trailer	\$40.00	Est./Month	4.0	\$160.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>				<b>\$1,541.00</b>

SUBCONTRACTORS				
Private Utility Locating Company	\$ 2,000.00	Quotes	1.0	\$2,000.00
Portable Sanitation Services	\$ 150.00	Est./Month	4.0	\$600.00
Electrical Sub. - Temp. Power Job Trailer	\$ 2,200.00	Quotes	1.0	\$2,200.00
Site Security Firm, Non-Working Periods, \$13/hr, 128 hr/wk	\$ 1,664.00	Week	17.5	\$29,120.00
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>				<b>\$33,920.00</b>

**TOTAL ESTIMATED COST PER TASK** **\$52,608.86**

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 07 Project Administration for Mobilization, On-Site and Demobilization Activities.	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Est. Units	Est. Cost
Clerical	Straight	\$37.06	hour	30.0	\$1,111.80
	Overtime	\$52.95	hour		\$0.00
Truck Driver, HazMat (On-site Water Truck)	Straight	\$63.52	hour	40.0	\$2,540.80
	Overtime	\$84.70	hour		\$0.00
Chemist	Straight	\$68.82	hour	30.0	\$2,064.60
	Overtime	\$90.00	hour		\$0.00
Field Supervisor	Straight	\$79.41	hour	40.0	\$3,176.40
Project Manager	Straight	\$105.88	hour	120.0	\$12,705.60
Health & Safety Officer	Straight	\$79.41	hour	40.0	\$3,176.40
<b>TOTAL PERSONNEL</b>					<b>\$24,775.60</b>
EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	18.0	\$705.42
<b>TOTAL MATERIALS</b>					<b>\$705.42</b>
DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	90.0	\$382.50
Analytical - Perimeter Air Sample Analysis		\$75.00	each	1.0	\$75.00
Analytical - Surface & Storm Water Sample Analysis		\$125.00	each	1.0	\$125.00
Sampling Supplies (Sting, Ice, etc.)		\$50.00	each	5.0	\$250.00
Shipping Charges for Samples/Documents		\$35.00	each	5.0	\$175.00
Office Supplies/Copies by vendor		\$200.00	Month	4.0	\$800.00
Asbestos Waste Disposal		\$58.00	CYD	4.0	\$232.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$2,039.50</b>
SUBCONTRACTORS					
Brandenburg-Mobilization		\$ 13,000.00	Quotes	1.0	\$13,000.00
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>					<b>\$13,000.00</b>
<b>TOTAL ESTIMATED COST PER TASK</b>					<b>\$40,520.52</b>

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 08	
		Unit Rates from HWA-6303 and ECHOS		Mobilization of Personnel, Equipment and Materials	
PERSONNEL		Rate	Units	Est. Units	Est. Cost
Project Technician, HazMat (Decon steel/structures and others)	Straight	\$58.24	hour	40.0	\$2,329.60
	Overtime	\$79.41	hour	10.0	\$794.10
Truck Driver, HazMat (On-site Water Truck)	Straight	\$63.52	hour	40.0	\$2,540.80
	Overtime	\$84.70	hour	10.0	\$847.00
Equipment Operator, HazMat (On-site 953 & Off Road Truck)	Straight	\$68.82	hour	8.0	\$550.56
	Overtime	\$90.00	hour	2.0	\$180.00
Field Supervisor	Straight	\$79.41	hour	50.0	\$3,970.50
Project Manager	Straight	\$105.88	hour	10.0	\$1,058.80
<b>TOTAL PERSONNEL</b>					<b>\$12,271.36</b>
EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	5.0	\$195.95
Service Vehicle/Auto	33010108	\$50.27	day	5.0	\$251.35
4x4 Service Vehicle	CODMA	\$10.65	hour	40.0	\$426.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day	2.0	\$271.00
Semi Tractor -3-axle, 46,000 GVW	XTRHC	\$43.95	hour	20.0	\$879.00
Lowboy or Roll-off Trailer	XXPLD	\$21.28	hour	20.0	\$425.60
<b>TOTAL EQUIPMENT</b>					<b>\$2,448.90</b>
DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	180.0	\$765.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$765.00</b>
<b>TOTAL ESTIMATED COST PER TASK</b>					<b>\$15,485.26</b>



**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 09 Asbestos Abatement - Removal, Transportation and Disposal (Supply Building)	
		Unit Rates from HWA-6303 and ECHOS			
<b>PERSONNEL</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>
Project Technician, HazMat (Decon steel/structures and others)	Straight	\$58.24	hour	40.0	\$2,329.60
	Overtime	\$79.41	hour	10.0	\$794.10
Truck Driver, HazMat (On-site Water Truck)	Straight	\$63.52	hour	8.0	\$508.16
	Overtime	\$84.70	hour		\$0.00
Field Supervisor	Straight	\$79.41	hour	20.0	\$1,588.20
Project Manager	Straight	\$105.88	hour	8.0	\$847.04
Health & Safety Officer	Straight	\$79.41	hour	4.0	\$317.64
<b>TOTAL PERSONNEL</b>					<b>\$6,384.74</b>

<b>EQUIPMENT</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>
Service Vehicle/Truck 4x2	33010102	\$39.19	day	5.0	\$195.95
4x4 Service Vehicle	CODMA	\$10.65	hour	20.0	\$213.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day	1.0	\$135.50
Personal Low Flow Sampling Pump	33 02 0314	\$212.89	month	0.2	\$42.58
<b>TOTAL EQUIPMENT</b>					<b>\$587.03</b>

<b>MATERIALS</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>
PPE-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair	4.0	\$0.88
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair	4.0	\$16.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each	4.0	\$27.32
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair	4.0	\$32.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	4.0	\$61.44
Shower Towels, Disposable	No Echos	\$48.00	case	1.0	\$48.00
Manifests	No Echos	\$7.50	each	1.0	\$7.50
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll	1.0	\$50.00
4-mil Poly Sheeting (20' by 100')	No Echos	\$65.00	roll	1.0	\$65.00
<b>TOTAL MATERIALS</b>					<b>\$308.14</b>

<b>DIRECT COSTS &amp; FIELD PURCHASES (no markup)</b>	<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon	\$4.25	gallons	32.0	\$136.00
Hotel	\$70.00	day	3.0	\$210.00
Per Diem	\$28.00	day	6.0	\$168.00
Analytical - Health & Safety Air Sample Analysis	\$75.00	each	2.0	\$150.00
Shipping Charges for Samples/Documents	\$35.00	each	1.0	\$35.00
Asbestos Waste Disposal	\$58.00	CYD	2.0	\$116.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>				<b>\$815.00</b>

<b>TOTAL ESTIMATED COST PER TASK</b>	<b>\$8,094.91</b>
--------------------------------------	-------------------

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 10	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Health and Safety & Perimeter Air Monitoring Est. Units	Est. Cost
Health & Safety Officer	Straight	\$79.41	hour	72.0	\$5,717.52
<b>TOTAL PERSONNEL</b>					<b>\$5,717.52</b>
EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	18.0	\$705.42
Personal Low Flow Sampling Pump	33 02 0314	\$212.89	month	16.0	\$3,406.24
Ambient Air Monitor	33 02 0315	\$767.87	month	16.0	\$12,285.92
<b>TOTAL EQUIPMENT</b>					<b>\$16,397.58</b>
DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	30.0	\$127.50
Analytical - Perimeter Air Sample Analysis		\$75.00	each	36.0	\$2,700.00
Analytical - Health & Safety Air Sample Analysis		\$75.00	each	18.0	\$1,350.00
Sampling Supplies (Sting, Ice, etc.)		\$50.00	each	18.0	\$900.00
Shipping Charges for Samples/Documents		\$35.00	each	18.0	\$630.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$5,707.50</b>
<b>TOTAL ESTIMATED COST PER TASK</b>					<b>\$27,822.60</b>

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 11	
				Rail Track and Ties (Estimate 6,000 linear feet)	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Est. Units	Est. Cost
Project Technician, HazMat	Straight	\$58.24	hour	80.0	\$4,659.20
(Decon steel/structures and others)	Overtime	\$79.41	hour	20.0	\$1,588.20
Truck Driver, HazMat	Straight	\$63.52	hour	40.0	\$2,540.80
(On-site Water Truck)	Overtime	\$84.70	hour	10.0	\$847.00
Equipment Operator, HazMat	Straight	\$68.82	hour	40.0	\$2,752.80
(On-site 953 & Off Road Truck)	Overtime	\$90.00	hour	10.0	\$900.00
Field Supervisor	Straight	\$79.41	hour	30.0	\$2,382.30
Project Manager	Straight	\$105.88	hour	20.0	\$2,117.60
<b>TOTAL PERSONNEL</b>					<b>\$17,787.90</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	5.0	\$195.95
Service Vehicle/Auto	33010108	\$50.27	day	2.0	\$100.54
4x4 Service Vehicle	CODMA	\$10.65	hour	40.0	\$426.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour	20.0	\$1,392.60
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour	40.0	\$1,289.20
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour	20.0	\$2,026.40
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day	2.0	\$93.90
<b>TOTAL EQUIPMENT</b>					<b>\$5,524.59</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost
PPE-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair	5.0	\$1.10
PPE-Nitrile Work Gloves	No Echors	\$4.00	pair	5.0	\$20.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each	5.0	\$34.15
PPE-Disposable PVC Pull-over Booties	No Echors	\$8.00	pair	5.0	\$40.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	5.0	\$76.80
Shower Towels, Disposable	No Echors	\$48.00	case	1.0	\$48.00
4-mil Poly Bags (75 count)	No Echors	\$50.00	roll	1.0	\$50.00
<b>TOTAL MATERIALS</b>					<b>\$270.05</b>

DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	200.0	\$850.00
Hotel		\$70.00	day	20.0	\$1,400.00
Per Diem		\$28.00	day	25.0	\$700.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$2,950.00</b>

SUBCONTRACTORS					
Brandenburg-Rail	\$	59,900.00	Quotes	1.0	\$59,900.00
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$	(280.00)	Credit, Est. Tons	255	\$ (71,400.00)
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>					<b>\$59,900.00</b>

<b>TOTAL ESTIMATED COST PER TASK</b>					<b>\$86,432.54</b>
--------------------------------------	--	--	--	--	--------------------

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 12	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Group 1 Structures Est. Units	Est. Cost
Project Technician, HazMat	Straight	\$58.24	hour	80.0	\$4,659.20
(Decon steel/structures and others)	Overtime	\$79.41	hour	20.0	\$1,588.20
Truck Driver, HazMat	Straight	\$63.52	hour	40.0	\$2,540.80
(On-site Water Truck)	Overtime	\$84.70	hour	10.0	\$847.00
Equipment Operator, HazMat	Straight	\$68.82	hour	40.0	\$2,752.80
(On-site 953 & Off Road Truck)	Overtime	\$90.00	hour	10.0	\$900.00
Field Supervisor	Straight	\$79.41	hour	30.0	\$2,382.30
Project Manager	Straight	\$105.88	hour	20.0	\$2,117.60
Health & Safety Officer	Straight	\$79.41	hour		\$0.00
<b>TOTAL PERSONNEL</b>					<b>\$17,787.90</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	5.0	\$195.95
Service Vehicle/Auto	33010108	\$50.27	day	5.0	\$251.35
4x4 Service Vehicle	CODMA	\$10.65	hour	40.0	\$426.00
Bobcat	COBBC	\$25.25	hour	20.0	\$505.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour	20.0	\$1,392.60
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour	40.0	\$1,289.20
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour	20.0	\$2,026.40
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour	20.0	\$397.60
Air Hose, 1", 100feet	CALDA	\$0.97	hour	20.0	\$19.40
Dry Ice Blasting Machine	No Echos	\$3,000.00	month	0.25	\$750.00
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day	2.0	\$93.90
<b>TOTAL EQUIPMENT</b>					<b>\$7,347.40</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair	10.0	\$40.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each	10.0	\$68.30
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair	10.0	\$80.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	10.0	\$153.60
Shower Towels, Disposable	No Echos	\$48.00	case	1.0	\$48.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound	500.0	\$150.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll	1.0	\$50.00
<b>TOTAL MATERIALS</b>					<b>\$589.90</b>

DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	250.0	\$1,062.50
Hotel		\$70.00	day	20.0	\$1,400.00
Per Diem		\$28.00	day	25.0	\$700.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$3,162.50</b>

SUBCONTRACTORS				
Brandenburg-Group 1 Buildings	\$ 83,200.00	Quotes	1.0	\$83,200.00
Quantity - Putrescible	1	Estimate Tons	405	405
Quantity - Non Putrescible	1	Estimate CYD	1490	1490
Quantity - Rail Ties	1	Estimate Tons		0
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$ (280.00)	Credit, Est. Tons	24	\$ (6,720.00)
TOTAL SUBCONTRACTORS OR PURCHASES				\$85,095.00

**TOTAL ESTIMATED COST PER TASK** **\$113,982.70**

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 13	
Unit Rates from HWA-6303 and ECHOS				Group 2 Structures	
PERSONNEL		Rate	Units	Est. Units	Est. Cost
Project Technician, HazMat	Straight	\$58.24	hour	800.0	\$46,592.00
(Decon steel/structures and others)	Overtime	\$79.41	hour	200.0	\$15,882.00
Truck Driver, HazMat	Straight	\$63.52	hour	200.0	\$12,704.00
(On-site Water Truck)	Overtime	\$84.70	hour	50.0	\$4,235.00
Equipment Operator, HazMat	Straight	\$68.82	hour	200.0	\$13,764.00
(On-site 953 & Off Road Truck)	Overtime	\$90.00	hour	50.0	\$4,500.00
Field Supervisor	Straight	\$79.41	hour	250.0	\$19,852.50
Project Manager	Straight	\$105.88	hour	20.0	\$2,117.60
<b>TOTAL PERSONNEL</b>					<b>\$119,647.10</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	25.0	\$979.75
Service Vehicle/Auto	33010108	\$50.27	day	25.0	\$1,256.75
4x4 Service Vehicle	CODMA	\$10.65	hour	100.0	\$1,065.00
Bobcat	COBBC	\$25.25	hour	200.0	\$5,050.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour	100.0	\$6,963.00
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour	200.0	\$6,446.00
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour	100.0	\$10,132.00
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour	200.0	\$3,976.00
Air Hose, 1", 100feet	CALDA	\$0.97	hour	200.0	\$194.00
Dry Ice Blasting Machine	No Echos	\$3,000.00	month	1.25	\$3,750.00
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day	2.0	\$93.90
<b>TOTAL EQUIPMENT</b>					<b>\$39,906.40</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair	50.0	\$200.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each	50.0	\$341.50
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair	50.0	\$400.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	50.0	\$768.00
Shower Towels, Disposable	No Echos	\$48.00	case	2.0	\$96.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound	2500.0	\$750.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll	1.0	\$50.00
<b>TOTAL MATERIALS</b>					<b>\$2,605.50</b>

DIRECT COSTS & FIELD PURCHASES (no markup)	Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon	\$4.25	gallons	650.0	\$2,762.50
Hotel	\$70.00	day	140.0	\$9,800.00
Per Diem	\$28.00	day	175.0	\$4,900.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>				<b>\$17,462.50</b>

SUBCONTRACTORS				
Brandenburg-Group 2 Buildings	\$ 279,000.00	Quotes	1.0	\$279,000.00
Quantity - Putrescible	1	Estimate Tons	185	185
Quantity - Non Putrescible	1	Estimate CYD	3812	3812
Quantity - Rail Ties	1	Estimate Tons		0
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$ (280.00)	Credit, Est. Tons	648	\$ (181,440.00)
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>				<b>\$282,997.00</b>

<b>TOTAL ESTIMATED COST PER TASK</b>	<b>\$462,618.50</b>
--------------------------------------	---------------------



**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 14	
Unit Rates from HWA-6303 and ECHOS				Group 3 Structures	
PERSONNEL		Rate	Units	Est. Units	Est. Cost
Project Technician, HazMat	Straight	\$58.24	hour	160.0	\$9,318.40
(Decon steel/structures and others)	Overtime	\$79.41	hour	40.0	\$3,176.40
Truck Driver, HazMat	Straight	\$63.52	hour	40.0	\$2,540.80
(On-site Water Truck)	Overtime	\$84.70	hour	10.0	\$847.00
Equipment Operator, HazMat	Straight	\$68.82	hour	40.0	\$2,752.80
(On-site 953 & Off Road Truck)	Overtime	\$90.00	hour	10.0	\$900.00
Field Supervisor	Straight	\$79.41	hour	50.0	\$3,970.50
Project Manager	Straight	\$105.88	hour	10.0	\$1,058.80
TOTAL PERSONNEL					\$24,564.70
EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	5.0	\$195.95
Service Vehicle/Auto	33010108	\$50.27	day	5.0	\$251.35
Bobcat	COBBC	\$25.25	hour	40.0	\$1,010.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour	20.0	\$1,392.60
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour	40.0	\$1,289.20
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour	20.0	\$2,026.40
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour	40.0	\$795.20
Air Hose, 1", 100feet	CALDA	\$0.97	hour	40.0	\$38.80
Dry Ice Blasting Machine	No Echos	\$3,000.00	month	0.25	\$750.00
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day	2.0	\$93.90
TOTAL EQUIPMENT					\$7,843.40
MATERIALS		Rate	Units	Est. Units	Est. Cost
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair	10.0	\$40.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each	10.0	\$68.30
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair	10.0	\$80.00
PPE-Repirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	10.0	\$153.60
Shower Towels, Disposable	No Echos	\$48.00	case	1.0	\$48.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound	500.0	\$150.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll	1.0	\$50.00
TOTAL MATERIALS					\$589.90
DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	250.0	\$1,062.50
Hotel		\$70.00	day	28.0	\$1,960.00
Per Diem		\$28.00	day	35.0	\$980.00
TOTAL DIRECT COSTS & FIELD PURCHASES					\$4,002.50
SUBCONTRACTORS					
Brandenburg-Group 3 Buildings	\$	43,000.00	Quotes	1.0	\$43,000.00
Quantity - Putrescible		1	Estimate Tons	41	41
Quantity - Non Putrescible		1	Estimate CYD	1189	1189
Quantity - Rail Ties		1	Estimate Tons		0
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$	(280.00)	Credit, Est. Tons	46	\$ (12,880.00)
TOTAL SUBCONTRACTORS OR PURCHASES					\$44,230.00
TOTAL ESTIMATED COST PER TASK					\$81,230.50

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 15	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Group 4 Structures	
		Rate		Est. Units	Est. Cost
Project Technician, HazMat	Straight	\$58.24	hour	1280.0	\$74,547.20
(Decon steel/structures and others)	Overtime	\$79.41	hour	320.0	\$25,411.20
Truck Driver, HazMat	Straight	\$63.52	hour	320.0	\$20,326.40
(On-site Water Truck)	Overtime	\$84.70	hour	80.0	\$6,776.00
Equipment Operator, HazMat	Straight	\$68.82	hour	320.0	\$22,022.40
(On-site 953 & Off Road Truck)	Overtime	\$90.00	hour	80.0	\$7,200.00
Field Supervisor	Straight	\$79.41	hour	300.0	\$23,823.00
Project Manager	Straight	\$105.88	hour	100.0	\$10,588.00
<b>TOTAL PERSONNEL</b>					<b>\$190,694.20</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	40.0	\$1,567.60
Service Vehicle/Auto	33010108	\$50.27	day	20.0	\$1,005.40
4x4 Service Vehicle	CODMA	\$10.65	hour	80.0	\$852.00
Bobcat	COBBC	\$25.25	hour	320.0	\$8,080.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour	160.0	\$11,140.80
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour	320.0	\$10,313.60
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour	160.0	\$16,211.20
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour	320.0	\$6,361.60
Air Hose, 1", 100feet	CALDA	\$0.97	hour	320.0	\$310.40
Dry Ice Blasting Machine	No Echos	\$3,000.00	month	2.00	\$6,000.00
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day	2.0	\$93.90
<b>TOTAL EQUIPMENT</b>					<b>\$61,936.50</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair	80.0	\$320.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each	80.0	\$546.40
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair	80.0	\$640.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	80.0	\$1,228.80
Shower Towels, Disposable	No Echos	\$48.00	case	3.0	\$144.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound	4000.0	\$1,200.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll	1.0	\$50.00
<b>TOTAL MATERIALS</b>					<b>\$4,129.20</b>

DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	650.0	\$2,762.50
Hotel		\$70.00	day	224.0	\$15,680.00
Per Diem		\$28.00	day	280.0	\$7,840.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$26,282.50</b>

SUBCONTRACTORS				
Brandenburg-Group 4 Buildings	\$ 417,000.00	Quotes	1.0	\$417,000.00
Quantity - Putrescible	1	Estimate Tons	519	519
Quantity - Non Putrescible	1	Estimate CYD	4415	4415
Quantity - Rail Ties	1	Estimate Tons		0
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$ (280.00)	Credit, Est. Tons	1584	\$ (443,520.00)
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>				<b>\$421,934.00</b>

<b>TOTAL ESTIMATED COST PER TASK</b>	<b>\$704,976.40</b>
--------------------------------------	---------------------

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Unit Rates from HWA-6303 and ECHOS		<b>Task 16</b> Perform Project Completion On-Site Inspection and Closeout Activities as Identified by IEPA	
<b>PERSONNEL</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>		
Project Technician, HazMat	Straight	\$58.24	hour	80.0	\$4,659.20		
(Decon steel/structures and others)	Overtime	\$79.41	hour	20.0	\$1,588.20		
Equipment Operator, HazMat	Straight	\$68.82	hour	40.0	\$2,752.80		
(On-site 953 & Off Road Truck)	Overtime	\$90.00	hour	10.0	\$900.00		
Field Supervisor	Straight	\$79.41	hour	20.0	\$1,588.20		
Project Manager	Straight	\$105.88	hour	50.0	\$5,294.00		
<b>TOTAL PERSONNEL</b>						<b>\$16,782.40</b>	
<b>EQUIPMENT</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>		
Service Vehicle/Truck 4x2	33010102	\$39.19	day	5.0	\$195.95		
4x4 Service Vehicle	CODMA	\$10.65	hour	50.0	\$532.50		
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour	40.0	\$795.20		
Air Hose, 1", 100feet	CALDA	\$0.97	hour	40.0	\$38.80		
Dry Ice Blasting Machine	No EchOS	\$3,000.00	month	0.25	\$750.00		
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day	5.0	\$234.75		
<b>TOTAL EQUIPMENT</b>						<b>\$2,547.20</b>	
<b>MATERIALS</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>		
PPE-Nitrile Work Gloves	No EchOS	\$4.00	pair	2.0	\$8.00		
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each	2.0	\$13.66		
PPE-Disposable PVC Pull-over Booties	No EchOS	\$8.00	pair	2.0	\$16.00		
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	2.0	\$30.72		
Shower Towels, Disposable	No EchOS	\$48.00	case	0.5	\$24.00		
Dry Ice - Consumption Rate of 1,000 lbs/day	No EchOS	\$0.30	pound	5000.0	\$1,500.00		
4-mil Poly Bags (75 count)	No EchOS	\$50.00	roll	1.0	\$50.00		
<b>TOTAL MATERIALS</b>						<b>\$1,642.38</b>	
<b>DIRECT COSTS &amp; FIELD PURCHASES (no markup)</b>		<b>Rate</b>	<b>Units</b>	<b>Est. Units</b>	<b>Est. Cost</b>		
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	60.0	\$255.00		
Hotel		\$70.00	day	12.0	\$840.00		
Per Diem		\$28.00	day	15.0	\$420.00		
Shipping Charges for Samples/Documents		\$35.00	each	3.0	\$105.00		
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>						<b>\$1,620.00</b>	
<b>TOTAL ESTIMATED COST PER TASK</b>						<b>\$22,591.98</b>	

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 17 Demobilization of Personnel, Equipment and Materials	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Est. Units	Est. Cost
Project Technician, HazMat (Decon steel/structures and others)	Straight	\$58.24	hour	40.0	\$2,329.60
	Overtime	\$79.41	hour	10.0	\$794.10
Truck Driver, HazMat (On-site Water Truck)	Straight	\$63.52	hour	32.0	\$2,032.64
	Overtime	\$84.70	hour	6.0	\$508.20
Field Supervisor	Straight	\$79.41	hour	50.0	\$3,970.50
Project Manager	Straight	\$105.88	hour	10.0	\$1,058.80
<b>TOTAL PERSONNEL</b>					<b>\$10,693.84</b>
EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	5.0	\$195.95
Service Vehicle/Auto	33010108	\$50.27	day	5.0	\$251.35
4x4 Service Vehicle	CODMA	\$10.65	hour	40.0	\$426.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day	2.0	\$271.00
Semi Tractor -3-axle, 46,000 GVW	XTRHC	\$43.95	hour	20.0	\$879.00
Lowboy or Roll-off Trailer	XXPLD	\$21.28	hour	20.0	\$425.60
<b>TOTAL EQUIPMENT</b>					<b>\$2,448.90</b>
MATERIALS		Rate	Units	Est. Units	Est. Cost
PPE-Nitrile Work Gloves	No Echors	\$4.00	pair	2.0	\$8.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each	2.0	\$13.66
PPE-Disposable PVC Pull-over Booties	No Echors	\$8.00	pair	2.0	\$16.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	2.0	\$30.72
Shower Towels, Disposable	No Echors	\$48.00	case	0.5	\$24.00
4-mil Poly Bags (75 count)	No Echors	\$50.00	roll	1.0	\$50.00
<b>TOTAL MATERIALS</b>					<b>\$142.38</b>
DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	200.0	\$850.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$850.00</b>
SUBCONTRACTORS					
Electrical Sub. - Temp. Power Job Trailer	\$	2,200.00	Quotes	0.1	\$220.00
Brandenburg-Demobilization	\$	13,000.00	Quotes	1.0	\$13,000.00
Quantity - Putrescible		1	Estimate Tons		0
Quantity - Non Putrescible		1	Estimate CYD		0
Quantity - Rail Ties		1	Estimate Tons		0
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$	(280.00)	Credit, Est. Tons		\$ -
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>					<b>\$13,220.00</b>
<b>TOTAL ESTIMATED COST PER TASK</b>					<b>\$27,355.12</b>

IEPA Cost Proposal - Structure Removal Project  
Eagle Zinc NPL Site, Hillsboro, Illinois  
Bodine Environmental Services, Inc.  
Version 1.0, May 19, 2008

Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client.				Task 18  Preparation and Submission of Project Completion Report	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Est. Units	Est. Cost
Clerical	Straight	\$37.06	hour	12.0	\$444.72
	Overtime	\$52.95	hour		\$0.00
Chemist	Straight	\$68.82	hour	16.0	\$1,101.12
	Overtime	\$90.00	hour		\$0.00
Field Supervisor	Straight	\$79.41	hour	40.0	\$3,176.40
Project Manager	Straight	\$105.88	hour	40.0	\$4,235.20
Health & Safety Officer	Straight	\$79.41	hour	16.0	\$1,270.56
<b>TOTAL PERSONNEL</b>					<b>\$10,228.00</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	4.0	\$156.76
<b>TOTAL EQUIPMENT</b>					<b>\$156.76</b>

DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	25.0	\$106.25
Shipping Charges for Samples/Documents		\$35.00	each	8.0	\$280.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$386.25</b>
<b>TOTAL ESTIMATED COST PER TASK</b>					<b>\$10,771.01</b>

**IEPA Cost Proposal - Structure Removal Project**  
**Eagle Zinc NPL Site, Hillsboro, Illinois**  
**Bodine Environmental Services, Inc.**  
**Version 1.0, May 19, 2008**

				Task 01		Task 02		Task 03		Task 04	
Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client				Prepare & Submit Field Sampling Plan (FSP) & Quality Assurance Project Plan (QAPP) for IEPA Approval		Prepare and Submit Project Implementation Plan (PIP) & Health and Safety Plan (HSP) for IEPA Approval		Prepare and Submit NPDES Construction Storm Water Pollution Prevention Plan & Other Plans/Specifications for IEPA Approval		Asbestos Inspection and Notification of Renovation/Demolition to IEPA-BOA	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Clerical	Straight	\$37.06	hour	10.0	\$370.60	10.0	\$370.60	10.0	\$370.60	4.0	\$148.24
	Overtime	\$52.95	hour		\$0.00		\$0.00		\$0.00		\$0.00
Project Technician, HazMat	Straight	\$58.24	hour		\$0.00		\$0.00		\$0.00		\$0.00
(Decon steel structures and others)	Overtime	\$79.41	hour		\$0.00		\$0.00		\$0.00		\$0.00
Truck Driver, HazMat	Straight	\$63.52	hour		\$0.00		\$0.00		\$0.00		\$0.00
(On-site Water Truck)	Overtime	\$84.70	hour		\$0.00		\$0.00		\$0.00		\$0.00
Equipment Operator, HazMat	Straight	\$68.82	hour		\$0.00		\$0.00		\$0.00		\$0.00
(On-site 953 & Off Road Truck)	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00		\$0.00
Chemist	Straight	\$68.82	hour	30.0	\$2,064.60		\$0.00		\$0.00		\$0.00
	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00		\$0.00
Field Supervisor	Straight	\$79.41	hour	10.0	\$794.10	20.0	\$1,588.20	20.0	\$1,588.20	40.0	\$3,176.40
Project Manager	Straight	\$105.88	hour	40.0	\$4,235.20	30.0	\$3,176.40	20.0	\$2,117.60	40.0	\$4,235.20
Health & Safety Officer	Straight	\$79.41	hour		\$0.00	20.0	\$1,588.20		\$0.00	4.0	\$317.64
<b>TOTAL PERSONNEL</b>					<b>\$7,464.50</b>		<b>\$6,723.40</b>		<b>\$4,076.40</b>		<b>\$7,877.48</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	2.0	\$78.38	1.0	\$39.19	1.0	\$39.19	3.0	\$117.57
Service Vehicle/Auto	33010108	\$50.27	day		\$0.00		\$0.00		\$0.00		\$0.00
4x4 Service Vehicle	CODMA	\$10.65	hour		\$0.00		\$0.00		\$0.00		\$0.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day		\$0.00		\$0.00		\$0.00		\$0.00
Temporary Office, 32' x 8'	99140102	\$263.22	month		\$0.00		\$0.00		\$0.00		\$0.00
Temporary Storage Trailer, 16' x 8'	99140201	\$86.10	month		\$0.00		\$0.00		\$0.00		\$0.00
21,000-gallon Steel Holding Tank	19040407	\$1,297.00	month		\$0.00		\$0.00		\$0.00		\$0.00
GPS, Trimble GH (submeter accuracy)	No EchOS	\$250.00	week		\$0.00		\$0.00		\$0.00		\$0.00
Bobcat	COBBC	\$25.25	hour		\$0.00		\$0.00		\$0.00		\$0.00
580 Case Extended Hoe, 4x4	CODEF	\$34.70	hour		\$0.00		\$0.00		\$0.00		\$0.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour		\$0.00		\$0.00		\$0.00		\$0.00
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour		\$0.00		\$0.00		\$0.00		\$0.00
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour		\$0.00		\$0.00		\$0.00		\$0.00
Semi Tractor -3-axle, 46,000 GVW	XTRHC	\$43.95	hour		\$0.00		\$0.00		\$0.00		\$0.00
Lowboy or Roll-off Trailer	XXPLD	\$21.28	hour		\$0.00		\$0.00		\$0.00		\$0.00
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour		\$0.00		\$0.00		\$0.00		\$0.00
Air Hose 1", 100feet	CALDA	\$0.97	hour		\$0.00		\$0.00		\$0.00		\$0.00
Dry Ice Blasting Machine	No EchOS	\$3,000.00	month		\$0.00		\$0.00		\$0.00		\$0.00
Personal Low Flow Sampling Pump	33 02 0314	\$212.89	month		\$0.00		\$0.00		\$0.00		\$0.00
Ambient Air Monitor	33 02 0315	\$767.87	month		\$0.00		\$0.00		\$0.00		\$0.00
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day		\$0.00		\$0.00		\$0.00		\$0.00
<b>TOTAL EQUIPMENT</b>					<b>\$78.38</b>		<b>\$39.19</b>		<b>\$39.19</b>		<b>\$117.57</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
PPE-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Nitrile Work Gloves	No EchOS	\$4.00	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Disposable PVC Pull-over Booties	No EchOS	\$8.00	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair		\$0.00		\$0.00		\$0.00		\$0.00
Shower Towels, Disposable	No EchOS	\$48.00	case		\$0.00		\$0.00		\$0.00		\$0.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No EchOS	\$0.30	pound		\$0.00		\$0.00		\$0.00		\$0.00
Drum Labels/DOT Markers	No EchOS	\$1.50	each		\$0.00		\$0.00		\$0.00		\$0.00
Manifests	No EchOS	\$7.50	each		\$0.00		\$0.00		\$0.00		\$0.00
4-mil Poly Bags (75 count)	No EchOS	\$50.00	roll		\$0.00		\$0.00		\$0.00		\$0.00
4-mil Poly Sheeting (20' by 100')	No EchOS	\$65.00	roll		\$0.00		\$0.00		\$0.00		\$0.00
<b>TOTAL MATERIALS</b>					<b>\$0.00</b>		<b>\$0.00</b>		<b>\$0.00</b>		<b>\$0.00</b>

DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment) Estimated @ \$4.25/gallon		\$4.25	gallons	8.0	\$34.00	4.0	\$17.00	4.0	\$17.00	15.0	\$63.75
Utilities (Electric, Phone, Internet)		\$250.00	Est /Month		\$0.00		\$0.00		\$0.00		\$0.00
Hotel		\$70.00	day		\$0.00		\$0.00		\$0.00		\$0.00
Per Diem		\$28.00	day		\$0.00		\$0.00		\$0.00		\$0.00
Drinking Water, Job Trailer		\$40.00	Est /Month		\$0.00		\$0.00		\$0.00		\$0.00
Federal, State, County and Municipal Fees		\$1.00	Units		\$0.00		\$0.00		\$0.00	150.0	\$150.00
Analytical - Asbestos Sample Analysis		\$10.00	each		\$0.00		\$0.00		\$0.00	100.0	\$1,000.00
Analytical - Waste Profile Sample Analysis		\$800.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Perimeter Air Sample Analysis		\$75.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Health & Safety Air Sample Analysis		\$75.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Surface & Storm Water Sample Analysis		\$125.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Sampling Supplies (Sling, Ice, etc.)		\$50.00	each		\$0.00		\$0.00		\$0.00	2.0	\$100.00
Shipping Charges for Samples/Documents		\$35.00	each	3.0	\$105.00	3.0	\$105.00	3.0	\$105.00	1.0	\$35.00
Office Supplies/Copies by vendor		\$200.00	Month		\$0.00		\$0.00		\$0.00		\$0.00
Asbestos Waste Disposal		\$58.00	CYD		\$0.00		\$0.00		\$0.00		\$0.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$139.00</b>		<b>\$122.00</b>		<b>\$122.00</b>		<b>\$1,348.75</b>

SUBCONTRACTORS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Private Utility Locating Company		\$ 2,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Portable Sanitation Services		\$ 150.00	Est /Month		\$0.00		\$0.00		\$0.00		\$0.00
Electrical Sub - Temp Power Job Trailer		\$ 2,200.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Site Security Firm, Non-Working Periods, \$13/hr, 128 hr/wk		\$ 1,664.00	Week		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Mobilization		\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Group 1 Buildings		\$ 83,200.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Group 2 Buildings		\$ 279,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Group 3 Buildings		\$ 43,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Group 4 Buildings		\$ 417,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Rail		\$ 59,900.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Demobilization		\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Quantity - Putrescible		1	Estimate Tons		0		0		0		0
Quantity - Non Putrescible		1	Estimate CYD		0		0		0		0
Quantity - Rail Ties		1	Estimate Tons		0		0		0		0
Quantity - Steel Scrap, value based on AMM 5th day pricing		\$ (280.00)	Credit, Est Tons		\$		\$		\$		\$
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>					<b>\$0.00</b>		<b>\$0.00</b>		<b>\$0.00</b>		<b>\$0.00</b>

**TOTAL ESTIMATED COST PER TASK**      **\$7,681.88**      **\$6,884.59**      **\$4,237.59**      **\$9,343.80**

**TOTAL ESTIMATED COST PER PERIOD**      **\$970,603.83**  
**BODINE ENVIRONMENTAL SERVICES, INC.**



IEPA Cost Proposal - Structure Removal Project  
Eagle Zinc NPL Site, Hillsboro, Illinois  
Bodine Environmental Services, Inc.  
Version 1.0, May 19, 2008

				Task 05		Task 06		Task 07		Task 08	
Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client				Waste Profile Sampling, Analysis and Profile Approval by TDSF for Off-Site Waste Disposal		JULIE/Utility Locales & On-Site Project Equipment, Direct and Materials Expenses (not itemized in other tasks)		Project Administration for Mobilization, On-Site and Demobilization Activities.		Mobilization of Personnel, Equipment and Materials	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Clerical	Straight	\$37.06	hour		\$0.00		\$0.00	30.0	\$1,111.80		\$0.00
	Overtime	\$52.95	hour		\$0.00		\$0.00		\$0.00		\$0.00
Project Technician, HazMat	Straight	\$58.24	hour	8.0	\$465.92	8.0	\$465.92		\$0.00	40.0	\$2,329.60
(Decon steel/structures and others)	Overtime	\$79.41	hour	2.0	\$158.82	2.0	\$158.82		\$0.00	10.0	\$794.10
Truck Driver, HazMat	Straight	\$63.52	hour		\$0.00		\$0.00	40.0	\$2,540.80	40.0	\$2,540.80
(On-site Water Truck)	Overtime	\$84.70	hour		\$0.00		\$0.00		\$0.00	10.0	\$847.00
Equipment Operator, HazMat	Straight	\$66.82	hour		\$0.00		\$0.00		\$0.00	8.0	\$550.56
(On-site 953 & Off Road Truck)	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00	2.0	\$180.00
Chemist	Straight	\$68.82	hour		\$0.00		\$0.00	30.0	\$2,064.60		\$0.00
	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00		\$0.00
Field Supervisor	Straight	\$79.41	hour	10.0	\$794.10	10.0	\$794.10	40.0	\$3,176.40	50.0	\$3,970.50
Project Manager	Straight	\$105.88	hour	8.0	\$847.04	20.0	\$2,117.60	120.0	\$12,705.60	10.0	\$1,058.80
Health & Safety Officer	Straight	\$79.41	hour		\$0.00		\$0.00	40.0	\$3,176.40		\$0.00
<b>TOTAL PERSONNEL</b>					<b>\$2,265.88</b>		<b>\$3,536.44</b>		<b>\$24,775.60</b>		<b>\$12,271.36</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	1.0	\$39.19	2.0	\$78.38	18.0	\$705.42	5.0	\$195.95
Service Vehicle/Auto	33010108	\$50.27	day		\$0.00	1.0	\$50.27		\$0.00	5.0	\$251.35
4x4 Service Vehicle	CODMA	\$10.65	hour		\$0.00	8.0	\$85.20		\$0.00	40.0	\$426.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day		\$0.00		\$0.00		\$0.00	2.0	\$271.00
Temporary Office, 32' x 8'	99140102	\$263.22	month		\$0.00	4.0	\$1,052.88		\$0.00		\$0.00
Temporary Storage Trailer, 16' x 8'	99140201	\$86.10	month		\$0.00	4.0	\$344.40		\$0.00		\$0.00
21,000-gallon Steel Holding Tank	19040407	\$1,297.00	month		\$0.00	4.0	\$5,188.00		\$0.00		\$0.00
GPS, Trimble GH (submeter accuracy)	No Echos	\$250.00	week		\$0.00	4.0	\$1,000.00		\$0.00		\$0.00
Bobcat	COBBC	\$25.25	hour		\$0.00		\$0.00		\$0.00		\$0.00
580 Case Extended Hoe, 4x4	CODEF	\$34.70	hour		\$0.00		\$0.00		\$0.00		\$0.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour		\$0.00		\$0.00		\$0.00		\$0.00
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour		\$0.00		\$0.00		\$0.00		\$0.00
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour		\$0.00		\$0.00		\$0.00		\$0.00
Semi Tractor - 3-axle, 45,000 GVW	XTRHC	\$43.95	hour		\$0.00		\$0.00		\$0.00	20.0	\$879.00
Lowboy or Roll-off Trailer	XXPLD	\$21.28	hour		\$0.00		\$0.00		\$0.00	20.0	\$425.60
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour		\$0.00		\$0.00		\$0.00		\$0.00
Air Hose, 1", 100feet	CALDA	\$0.97	hour		\$0.00		\$0.00		\$0.00		\$0.00
Dry Ice Blasting Machine	No Echos	\$3,000.00	month		\$0.00		\$0.00		\$0.00		\$0.00
Personal Low Flow Sampling Pump	33 02 0314	\$212.89	month		\$0.00	4.0	\$851.56		\$0.00		\$0.00
Ambient Air Monitor	33 02 0315	\$767.87	month		\$0.00	4.0	\$3,071.48		\$0.00		\$0.00
Trash Pump - 3" 150 GPM	17 03 1003	\$46.95	day		\$0.00	15.0	\$704.25		\$0.00		\$0.00
<b>TOTAL EQUIPMENT</b>					<b>\$39.19</b>		<b>\$12,426.42</b>		<b>\$705.42</b>		<b>\$2,448.90</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
E-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Disposable Coveralls (Tyvek/Polycosted)	33010424	\$6.83	each		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair		\$0.00		\$0.00		\$0.00		\$0.00
Shower Towels, Disposable	No Echos	\$48.00	case		\$0.00		\$0.00		\$0.00		\$0.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound		\$0.00		\$0.00		\$0.00		\$0.00
Drum Labels/DOT Markers	No Echos	\$1.50	each		\$0.00	50.0	\$75.00		\$0.00		\$0.00
Manifests	No Echos	\$7.50	each		\$0.00	100.0	\$750.00		\$0.00		\$0.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll		\$0.00	2.0	\$100.00		\$0.00		\$0.00
4-mil Poly Sheeting (20' by 100')	No Echos	\$65.00	roll		\$0.00	4.0	\$260.00		\$0.00		\$0.00
<b>TOTAL MATERIALS</b>					<b>\$0.00</b>		<b>\$1,185.00</b>		<b>\$0.00</b>		<b>\$0.00</b>

DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	8.0	\$34.00	60.0	\$255.00	90.0	\$382.50	180.0	\$765.00
Utilities (Electric, Phone, Internet)		\$250.00	Est./Month		\$0.00	4.0	\$1,000.00		\$0.00		\$0.00
Hotel		\$70.00	day		\$0.00	1.0	\$70.00		\$0.00		\$0.00
Per Diem		\$28.00	day		\$0.00	2.0	\$56.00		\$0.00		\$0.00
Drinking Water, Job Trailer		\$40.00	Est./Month		\$0.00	4.0	\$160.00		\$0.00		\$0.00
Federal, State, County and Municipal Fees		\$1.00	Units		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Asbestos Sample Analysis		\$10.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Waste Profile Sample Analysis		\$800.00	each	1.0	\$800.00		\$0.00		\$0.00		\$0.00
Analytical - Perimeter Air Sample Analysis		\$75.00	each		\$0.00		\$0.00	1.0	\$75.00		\$0.00
Analytical - Health & Safety Air Sample Analysis		\$75.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Surface & Storm Water Sample Analysis		\$125.00	each		\$0.00		\$0.00	1.0	\$125.00		\$0.00
Sampling Supplies (Sting, Ice, etc.)		\$50.00	each		\$0.00		\$0.00	5.0	\$250.00		\$0.00
Shipping Charges for Samples/Documents		\$35.00	each		\$0.00		\$0.00	5.0	\$175.00		\$0.00
Office Supplies/Copies by vendor		\$200.00	Month		\$0.00		\$0.00	4.0	\$800.00		\$0.00
Asbestos Waste Disposal		\$58.00	CYD		\$0.00		\$0.00	4.0	\$232.00		\$0.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$834.00</b>		<b>\$1,541.00</b>		<b>\$2,039.50</b>		<b>\$765.00</b>

SUBCONTRACTORS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Private Utility Locating Company		\$ 2,000.00	Quotes		\$0.00	1.0	\$2,000.00		\$0.00		\$0.00
Portable Sanitation Services		\$ 150.00	Est./Month		\$0.00	4.0	\$600.00		\$0.00		\$0.00
Electrical Sub - Temp. Power Job Trailer		\$ 2,200.00	Quotes		\$0.00	1.0	\$2,200.00		\$0.00		\$0.00
Site Security Firm, Non-Working Periods, \$13/hr, 128 hr/wk		\$ 1,664.00	Week		\$0.00	17.5	\$29,120.00		\$0.00		\$0.00
Brandenburg-Mobilization		\$ 13,000.00	Quotes		\$0.00		\$0.00	1.0	\$13,000.00		\$0.00
Brandenburg-Group 1 Buildings		\$ 83,200.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Group 2 Buildings		\$ 279,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Group 3 Buildings		\$ 43,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Group 4 Buildings		\$ 417,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Rail		\$ 59,900.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Demobilization		\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Quantity - Putscreable		1	Estimate Tons		0		0		0		0
Quantity - Non Putscreable		1	Estimate CYD		0		0		0		0
Quantity - Rail Ties		1	Estimate Tons		0		0		0		0
Quantity - Steel Scrap, value based on AMM 5th day pricing		\$ (280.00)	Credit, Est. Tons		\$		\$		\$		\$
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>					<b>\$0.00</b>		<b>\$33,920.00</b>		<b>\$13,000.00</b>		<b>\$0.00</b>

**TOTAL ESTIMATED COST PER TASK**      **\$3,139.07**      **\$52,808.86**      **\$40,320.52**      **\$15,485.26**

**TOTAL ESTIMATED COST PER PERIOD**      **\$970,603.83**  
**BODINE ENVIRONMENTAL SERVICES, INC.**

IEPA Cost Proposal - Structure Removal Project  
Eagle Zinc NPL Site, Hillsboro, Illinois  
Bodine Environmental Services, Inc.  
Version 1.0, May 19, 2008

				Task 09		Task 10		Task 11		Task 12	
Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client				Asbestos Abatement - Removal, Transportation and Disposal (Supply Building)		Health and Safety & Perimeter Air Monitoring		Rail Track and Ties (Estimate 6,000 linear feet)		Group 1 Structures	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS		Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Clerical	Straight	\$37.06	hour		\$0.00		\$0.00		\$0.00		\$0.00
	Overtime	\$52.95	hour		\$0.00		\$0.00		\$0.00		\$0.00
Project Technician, HazMat	Straight	\$58.24	hour	40.0	\$2,329.60		\$0.00	80.0	\$4,659.20	80.0	\$4,659.20
(Decon steel/structures and others)	Overtime	\$79.41	hour	10.0	\$794.10		\$0.00	20.0	\$1,588.20	20.0	\$1,588.20
Truck Driver, HazMat	Straight	\$63.52	hour	8.0	\$508.16		\$0.00	40.0	\$2,540.80	40.0	\$2,540.80
(On-site Water Truck)	Overtime	\$84.70	hour		\$0.00		\$0.00	10.0	\$847.00	10.0	\$847.00
Equipment Operator, HazMat	Straight	\$68.82	hour		\$0.00		\$0.00	40.0	\$2,752.80	40.0	\$2,752.80
(On-site 953 & Off Road Truck)	Overtime	\$90.00	hour		\$0.00		\$0.00	10.0	\$900.00	10.0	\$900.00
Chemist	Straight	\$68.82	hour		\$0.00		\$0.00		\$0.00		\$0.00
	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00		\$0.00
Field Supervisor	Straight	\$79.41	hour	20.0	\$1,588.20		\$0.00	30.0	\$2,382.30	30.0	\$2,382.30
Project Manager	Straight	\$105.88	hour	8.0	\$847.04		\$0.00	20.0	\$2,117.60	20.0	\$2,117.60
Health & Safety Officer	Straight	\$79.41	hour	4.0	\$317.64	72.0	\$5,717.52		\$0.00		\$0.00
TOTAL PERSONNEL					\$6,384.74		\$5,717.52		\$17,787.90		\$17,787.90
EQUIPMENT		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	5.0	\$195.95	18.0	\$705.42	5.0	\$195.95	5.0	\$195.95
Service Vehicle/Auto	33010108	\$50.27	day		\$0.00		\$0.00	2.0	\$100.54	5.0	\$251.35
4x4 Service Vehicle	CODMA	\$10.65	hour	20.0	\$213.00		\$0.00	40.0	\$426.00	40.0	\$426.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day	1.0	\$135.50		\$0.00		\$0.00		\$0.00
Temporary Office, 32' x 8'	99140102	\$263.22	month		\$0.00		\$0.00		\$0.00		\$0.00
Temporary Storage Trailer, 16' x 8'	99140201	\$86.10	month		\$0.00		\$0.00		\$0.00		\$0.00
21,000-gallon Steel Holding Tank	19040407	\$1,297.00	month		\$0.00		\$0.00		\$0.00		\$0.00
GPS, Trimble GH (submeter accuracy)	No Echos	\$250.00	week		\$0.00		\$0.00		\$0.00		\$0.00
Bobcat	COBBC	\$25.25	hour		\$0.00		\$0.00		\$0.00	20.0	\$505.00
580 Case Extended Hoe, 4x4	CODEF	\$34.70	hour		\$0.00		\$0.00		\$0.00		\$0.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour		\$0.00		\$0.00	20.0	\$1,392.60	20.0	\$1,392.60
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour		\$0.00		\$0.00	40.0	\$1,289.20	40.0	\$1,289.20
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour		\$0.00		\$0.00	20.0	\$2,026.40	20.0	\$2,026.40
Semi Tractor -3 axle, 46,000 GVW	XTRHC	\$43.95	hour		\$0.00		\$0.00		\$0.00		\$0.00
Lowboy or Roll-off Trailer	XXPLD	\$21.28	hour		\$0.00		\$0.00		\$0.00		\$0.00
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour		\$0.00		\$0.00		\$0.00	20.0	\$397.60
Air Hose, 1", 100feet	CALDA	\$0.97	hour		\$0.00		\$0.00		\$0.00	20.0	\$19.40
Dry Ice Blasting Machine	No Echos	\$3,000.00	month		\$0.00		\$0.00	0.0	\$0.00	0.25	\$750.00
Personal Low Flow Sampling Pump	33 02 0314	\$212.89	month	0.2	\$42.58	16.0	\$3,406.24		\$0.00		\$0.00
Ambient Air Monitor	33 02 0315	\$767.87	month		\$0.00	16.0	\$12,285.92		\$0.00		\$0.00
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day		\$0.00		\$0.00	2.0	\$93.90	2.0	\$93.90
TOTAL EQUIPMENT					\$587.03		\$16,397.58		\$5,524.59		\$7,347.40
TRIALS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair	4.0	\$0.88		\$0.00	5.0	\$1.10		\$0.00
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair	4.0	\$16.00		\$0.00	5.0	\$20.00	10.0	\$40.00
PPE-Disposable Coveralls (Tyvek/Polycrystalline)	33010424	\$6.83	each	4.0	\$27.32		\$0.00	5.0	\$34.15	10.0	\$68.30
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair	4.0	\$32.00		\$0.00	5.0	\$40.00	10.0	\$80.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	4.0	\$61.44		\$0.00	5.0	\$76.80	10.0	\$153.60
Shower Towels, Disposable	No Echos	\$48.00	case	1.0	\$48.00		\$0.00	1.0	\$48.00	1.0	\$48.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound		\$0.00		\$0.00	0.0	\$0.00	500.0	\$150.00
Drum Labels/DOT Markers	No Echos	\$1.50	each		\$0.00		\$0.00		\$0.00		\$0.00
Manifests	No Echos	\$7.50	each	1.0	\$7.50		\$0.00		\$0.00		\$0.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll	1.0	\$50.00		\$0.00	1.0	\$50.00	1.0	\$50.00
4-mil Poly Sheeting (20' by 100')	No Echos	\$65.00	roll	1.0	\$65.00		\$0.00		\$0.00		\$0.00
TOTAL MATERIALS					\$308.14		\$0.00		\$270.05		\$589.90
DIRECT COSTS & FIELD PURCHASES (no markup)				Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon	\$4.25	gallons	32.0	\$136.00	30.0	\$127.50	200.0	\$850.00	250.0	\$1,062.50	
Utilities (Electric, Phone, Internet)	\$250.00	Est./Month		\$0.00		\$0.00		\$0.00		\$0.00	
Hotel	\$70.00	day	3.0	\$210.00		\$0.00	20.0	\$1,400.00	20.0	\$1,400.00	
Per Diem	\$28.00	day	6.0	\$168.00		\$0.00	25.0	\$700.00	25.0	\$700.00	
Drinking Water, Job Trailer	\$40.00	Est./Month		\$0.00		\$0.00		\$0.00		\$0.00	
Federal, State, County and Municipal Fees	\$1.00	Units		\$0.00		\$0.00		\$0.00		\$0.00	
Analytical - Asbestos Sample Analysis	\$10.00	each		\$0.00		\$0.00		\$0.00		\$0.00	
Analytical - Waste Profile Sample Analysis	\$800.00	each		\$0.00		\$0.00		\$0.00		\$0.00	
Analytical - Perimeter Air Sample Analysis	\$75.00	each		\$0.00	36.0	\$2,700.00		\$0.00		\$0.00	
Analytical - Health & Safety Air Sample Analysis	\$75.00	each	2.0	\$150.00	18.0	\$1,350.00		\$0.00		\$0.00	
Analytical - Surface & Storm Water Sample Analysis	\$125.00	each		\$0.00		\$0.00		\$0.00		\$0.00	
Sampling Supplies (Sting, ice, etc.)	\$50.00	each		\$0.00	18.0	\$900.00		\$0.00		\$0.00	
Shipping Charges for Samples/Documents	\$35.00	each	1.0	\$35.00	18.0	\$630.00		\$0.00		\$0.00	
Office Supplies/Copies by vendor	\$200.00	Month		\$0.00		\$0.00		\$0.00		\$0.00	
Asbestos Waste Disposal	\$58.00	CYD	2.0	\$116.00		\$0.00		\$0.00		\$0.00	
TOTAL DIRECT COSTS & FIELD PURCHASES					\$815.00		\$5,707.50		\$2,950.00		\$3,162.50
SUBCONTRACTORS											
Private Utility Locating Company	\$ 2,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Portable Sanitation Services	\$ 150.00	Est./Month		\$0.00		\$0.00		\$0.00		\$0.00	
Electrical Sub - Temp. Power Job Trailer	\$ 2,200.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Site Security Firm, Non-Working Periods, \$13/hr, 128 hr/wk	\$ 1,664.00	Week		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Mobilization	\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Group 1 Buildings	\$ 83,200.00	Quotes		\$0.00		\$0.00		\$0.00	1.0	\$83,200.00	
Brandenburg-Group 2 Buildings	\$ 279,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Group 3 Buildings	\$ 43,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Group 4 Buildings	\$ 417,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Rail	\$ 59,900.00	Quotes		\$0.00		\$0.00	1.0	\$59,900.00		\$0.00	
Brandenburg-Demobilization	\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Quantity - Putrescible	1	Estimate Tons		0		0		0		405	405
Quantity - Non Putrescible	1	Estimate CYD		0		0		0		1490	1490
Quantity - Rail Ties	1	Estimate Tons		0		0		360		360	360
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$ (280.00)	Credit, Est. Tons		\$		\$		255	\$ (71,400.00)	24	\$ (6,720.00)
TOTAL SUBCONTRACTORS OR PURCHASES					\$0.00		\$0.00		\$60,260.00		\$60,260.00
TOTAL ESTIMATED COST PER TASK					\$8,094.91		\$27,822.60		\$86,792.54		\$113,982.70
TOTAL ESTIMATED COST PER PERIOD					\$970,603.83						

BODINE ENVIRONMENTAL SERVICES, INC.

IEPA Cost Proposal - Structure Removal Project  
Eagle Zinc NPL Site, Hillsboro, Illinois  
Bodine Environmental Services, Inc.  
Version 1.0, May 19, 2008

				Task 13		Task 14		Task 15	
Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client				Group 2 Structures		Group 3 Structures		Group 4 Structures	
Unit Rates from HWA-6303 and ECHOS				Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
PERSONNEL		Rate	Units						
Clerical	Straight	\$37.06	hour		\$0.00		\$0.00		\$0.00
	Overtime	\$52.95	hour		\$0.00		\$0.00		\$0.00
Project Technician, HazMat (Decon shell/structures and others)	Straight	\$58.24	hour	800.0	\$46,592.00	160.0	\$9,318.40	1280.0	\$74,547.20
	Overtime	\$79.41	hour	200.0	\$15,882.00	40.0	\$3,176.40	320.0	\$25,411.20
Truck Driver, HazMat (On-site Water Truck)	Straight	\$63.52	hour	200.0	\$12,704.00	40.0	\$2,540.80	320.0	\$20,326.40
	Overtime	\$84.70	hour	50.0	\$4,235.00	10.0	\$847.00	80.0	\$6,776.00
Equipment Operator, HazMat (On-site 953 & Off Road Truck)	Straight	\$68.82	hour	200.0	\$13,764.00	40.0	\$2,752.80	320.0	\$22,022.40
	Overtime	\$90.00	hour	50.0	\$4,500.00	10.0	\$900.00	80.0	\$7,200.00
Chemist	Straight	\$68.82	hour		\$0.00		\$0.00		\$0.00
	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00
Field Supervisor	Straight	\$79.41	hour	250.0	\$19,852.50	50.0	\$3,970.50	300.0	\$23,823.00
Project Manager	Straight	\$105.88	hour	20.0	\$2,117.60	10.0	\$1,058.80	100.0	\$10,588.00
Health & Safety Officer	Straight	\$79.41	hour		\$0.00		\$0.00		\$0.00
<b>TOTAL PERSONNEL</b>					<b>\$119,647.10</b>		<b>\$24,564.70</b>		<b>\$190,694.20</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	25.0	\$979.75	5.0	\$195.95	40.0	\$1,567.60
Service Vehicle/Auto	33010108	\$50.27	day	25.0	\$1,256.75	5.0	\$251.35	20.0	\$1,005.40
4x4 Service Vehicle	CODMA	\$10.65	hour	100.0	\$1,065.00	40.0	\$426.00	80.0	\$852.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day		\$0.00		\$0.00		\$0.00
Temporary Office, 32' x 8'	99140201	\$263.22	month		\$0.00		\$0.00		\$0.00
Temporary Storage Trailer, 16' x 8'	19040407	\$1,297.00	month		\$0.00		\$0.00		\$0.00
21,000-gallon Steel Holding Tank	No EchOS	\$250.00	week		\$0.00		\$0.00		\$0.00
GPS, Trimble GH (submeter accuracy)	COBBC	\$25.25	hour	200.0	\$5,050.00	40.0	\$1,010.00	320.0	\$8,080.00
Bobcat	CODDF	\$34.70	hour		\$0.00		\$0.00		\$0.00
580 Case Extended Hoe, 4x4	CODLG	\$69.63	hour	100.0	\$6,963.00	20.0	\$1,392.60	160.0	\$11,140.80
CAT 953, 4 in 1 bucket	COFWK	\$32.23	hour	200.0	\$6,446.00	40.0	\$1,289.20	320.0	\$10,313.60
Truck, Water, Off-Highway - dust suppression	COEIB	\$101.32	hour	100.0	\$10,132.00	20.0	\$2,026.40	160.0	\$16,211.20
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	XTRHC	\$43.95	hour		\$0.00		\$0.00		\$0.00
Semi Tractor - 3-axle, 46,000 GVW	XXPLD	\$21.28	hour		\$0.00		\$0.00		\$0.00
Lowboy or Roll-off Trailer	CALDA	\$19.88	hour	200.0	\$3,976.00	40.0	\$795.20	320.0	\$6,361.60
Air Compressor, 375 CFM, 100 PSI	CALDA	\$0.97	hour	200.0	\$194.00	40.0	\$38.80	320.0	\$310.40
Air Hose, 1", 100feet	No EchOS	\$3,000.00	month	1.25	\$3,750.00	0.25	\$750.00	2.00	\$6,000.00
Dry Ice Blasting Machine	33 02 0314	\$212.89	month		\$0.00		\$0.00		\$0.00
Personal Low Flow Sampling Pump	33 02 0315	\$767.87	month		\$0.00		\$0.00		\$0.00
Ambient Air Monitor	17 03 1003	\$46.95	day	2.0	\$93.90	2.0	\$93.90	2.0	\$93.90
Trash Pump - 3", 150 GPM					\$0.00		\$0.00		\$0.00
<b>TOTAL EQUIPMENT</b>					<b>\$39,906.40</b>		<b>\$8,269.40</b>		<b>\$61,936.50</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
PPE-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair		\$0.00		\$0.00		\$0.00
PPE-Nitrile Work Gloves	No EchOS	\$4.00	pair	50.0	\$200.00	10.0	\$40.00	80.0	\$320.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each	50.0	\$341.50	10.0	\$68.30	80.0	\$546.40
PPE-Disposable PVC Pull-over Booties	No EchOS	\$8.00	pair	50.0	\$400.00	10.0	\$80.00	80.0	\$640.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	50.0	\$768.00	10.0	\$153.60	80.0	\$1,228.80
Shower Towels, Disposable	No EchOS	\$48.00	case	2.0	\$96.00	1.0	\$48.00	3.0	\$144.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No EchOS	\$0.30	pound	2500.0	\$750.00	500.0	\$150.00	4000.0	\$1,200.00
Drum Labels/DOT Markers	No EchOS	\$1.50	each		\$0.00		\$0.00		\$0.00
Manifests	No EchOS	\$7.50	each		\$0.00		\$0.00		\$0.00
4-mil Poly Bags (75 count)	No EchOS	\$50.00	roll	1.0	\$50.00	1.0	\$50.00	1.0	\$50.00
4-mil Poly Sheeting (20' by 100')	No EchOS	\$65.00	roll		\$0.00		\$0.00		\$0.00
<b>TOTAL MATERIALS</b>					<b>\$2,605.50</b>		<b>\$598.90</b>		<b>\$4,129.20</b>

DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	650.0	\$2,762.50	250.0	\$1,062.50	650.0	\$2,762.50
Utilities (Electric, Phone, Internet)		\$250.00	Est./Month		\$0.00		\$0.00		\$0.00
Hotel		\$70.00	day	140.0	\$9,800.00	28.0	\$1,960.00	224.0	\$15,680.00
Per Diem		\$28.00	day	175.0	\$4,900.00	35.0	\$980.00	280.0	\$7,840.00
Drinking Water, Job Trailer		\$40.00	Est./Month		\$0.00		\$0.00		\$0.00
Federal, State, County and Municipal Fees		\$1.00	Units		\$0.00		\$0.00		\$0.00
Analytical - Asbestos Sample Analysis		\$10.00	each		\$0.00		\$0.00		\$0.00
Analytical - Waste Profile Sample Analysis		\$800.00	each		\$0.00		\$0.00		\$0.00
Analytical - Perimeter Air Sample Analysis		\$75.00	each		\$0.00		\$0.00		\$0.00
Analytical - Health & Safety Air Sample Analysis		\$75.00	each		\$0.00		\$0.00		\$0.00
Analytical - Surface & Storm Water Sample Analysis		\$125.00	each		\$0.00		\$0.00		\$0.00
Sampling Supplies (Sling, Ice, etc.)		\$50.00	each		\$0.00		\$0.00		\$0.00
Shipping Charges for Samples/Documents		\$35.00	each		\$0.00		\$0.00		\$0.00
Office Supplies/Copies by vendor		\$200.00	Month		\$0.00		\$0.00		\$0.00
Asbestos Waste Disposal		\$50.00	CYD		\$0.00		\$0.00		\$0.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$17,462.50</b>		<b>\$4,002.50</b>		<b>\$26,262.50</b>

SUBCONTRACTORS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Private Utility Locating Company		\$ 2,000.00	Quotes		\$0.00		\$0.00		\$0.00
Portable Sanitation Services		\$ 150.00	Est./Month		\$0.00		\$0.00		\$0.00
Electrical Sub. - Temp. Power Job Trailer		\$ 2,200.00	Quotes		\$0.00		\$0.00		\$0.00
Site Security Firm, Non-Working Periods, \$13/hr, 128 hr/wk		\$ 1,664.00	Week		\$0.00		\$0.00		\$0.00
Brandenburg-Mobilization		\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Group 1 Buildings		\$ 83,200.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Group 2 Buildings		\$ 279,000.00	Quotes	1.0	\$279,000.00		\$0.00		\$0.00
Brandenburg-Group 3 Buildings		\$ 43,000.00	Quotes		\$0.00	1.0	\$43,000.00		\$0.00
Brandenburg-Group 4 Buildings		\$ 417,000.00	Quotes		\$0.00		\$0.00	1.0	\$417,000.00
Brandenburg-Rail		\$ 59,900.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Demobilization		\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00
Quantity - Putrescible		1	Estimate Tons	185	\$185.00	41	\$41.00	519	\$519.00
Quantity - Non Putrescible		1	Estimate CYD	3812	\$3812.00	1189	\$1189.00	4415	\$4415.00
Quantity - Rail Ties		1	Estimate Tons	0	\$0.00	0	\$0.00	0	\$0.00
Quantity - Steel Scrap, value based on AMM 5th day pricing		\$ (280.00)	Credit, Est. Tons	648	\$ (181,440.00)	46	\$ (12,880.00)	1584	\$ (443,520.00)
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>					<b>\$282,997.00</b>		<b>\$44,230.00</b>		<b>\$421,934.00</b>

**TOTAL ESTIMATED COST PER TASK** **\$462,618.50** **\$81,656.50** **\$704,976.40**

**TOTAL ESTIMATED COST PER PERIOD** **\$970,603.83**  
**BODINE ENVIRONMENTAL SERVICES, INC.**

IEPA Cost Proposal - Structure Removal Project  
Eagle Zinc NPL Site, Hillsboro, Illinois  
Bodine Environmental Services, Inc.  
Version 1.0, May 19, 2008

				Task 16		Task 17		Task 18	
Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client				Perform Project Completion On-Site Inspection and Closeout Activities as Identified by IEPA		Demobilization of Personnel, Equipment and Materials		Preparation and Submission of Project Completion Report	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Clerical	Straight	\$37.06	hour		\$0.00		\$0.00	12.0	\$444.72
	Overtime	\$52.95	hour		\$0.00		\$0.00		\$0.00
Project Technician, HazMat (Decon steel structures and others)	Straight	\$58.24	hour	80.0	\$4,659.20	40.0	\$2,329.60		\$0.00
	Overtime	\$79.41	hour	20.0	\$1,588.20	10.0	\$794.10		\$0.00
Truck Driver, HazMat (On-site Water Truck)	Straight	\$63.52	hour		\$0.00	32.0	\$2,032.64		\$0.00
	Overtime	\$84.70	hour		\$0.00	6.0	\$508.20		\$0.00
Equipment Operator, HazMat (On-site 953 & Off Road Truck)	Straight	\$68.82	hour	40.0	\$2,752.80		\$0.00		\$0.00
	Overtime	\$90.00	hour	10.0	\$900.00		\$0.00		\$0.00
Chemist	Straight	\$68.82	hour		\$0.00		\$0.00	16.0	\$1,101.12
	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00
Field Supervisor	Straight	\$79.41	hour	20.0	\$1,588.20	50.0	\$3,970.50	40.0	\$3,176.40
Project Manager	Straight	\$105.88	hour	50.0	\$5,294.00	10.0	\$1,058.80	40.0	\$4,235.20
Health & Safety Officer	Straight	\$79.41	hour		\$0.00		\$0.00	16.0	\$1,270.56
<b>TOTAL PERSONNEL</b>					<b>\$16,782.40</b>		<b>\$10,693.84</b>		<b>\$10,228.00</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	5.0	\$195.95	5.0	\$195.95	4.0	\$156.76
Service Vehicle/Auto	33010108	\$50.27	day		\$0.00	5.0	\$251.35		\$0.00
4x4 Service Vehicle	CODMA	\$10.65	hour	50.0	\$532.50	40.0	\$426.00		\$0.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day		\$0.00	2.0	\$271.00		\$0.00
Temporary Office, 32' x 8'	99140102	\$263.22	month		\$0.00		\$0.00		\$0.00
Temporary Storage Trailer, 16' x 8'	99140201	\$86.10	month		\$0.00		\$0.00		\$0.00
21,000-gallon Steel Holding Tank	19040407	\$1,297.00	month		\$0.00		\$0.00		\$0.00
GPS, Trimble GH (submeter accuracy)	No Echos	\$250.00	week		\$0.00		\$0.00		\$0.00
Bobcat	COBBC	\$25.25	hour		\$0.00		\$0.00		\$0.00
580 Case Extended Hoe, 4x4	CODEF	\$34.70	hour		\$0.00		\$0.00		\$0.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour		\$0.00		\$0.00		\$0.00
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour		\$0.00		\$0.00		\$0.00
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour		\$0.00		\$0.00		\$0.00
Semi Tractor -3-axle, 46,000 GVW	XTRHC	\$43.95	hour		\$0.00	20.0	\$879.00		\$0.00
Lowboy or Roll-off Trailer	XXPLD	\$21.28	hour		\$0.00	20.0	\$425.60		\$0.00
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour	40.0	\$795.20		\$0.00		\$0.00
Air Hose, 1", 100feet	CALDA	\$0.97	hour	40.0	\$38.80		\$0.00		\$0.00
Dry Ice Blasting Machine	No Echos	\$3,000.00	month	0.25	\$750.00		\$0.00		\$0.00
Personal Low Flow Sampling Pump	33 02 0314	\$12.89	month		\$0.00		\$0.00		\$0.00
Ambient Air Monitor	33 02 0315	\$767.87	month		\$0.00		\$0.00		\$0.00
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day	5.0	\$234.75		\$0.00		\$0.00
<b>TOTAL EQUIPMENT</b>					<b>\$2,547.20</b>		<b>\$2,448.90</b>		<b>\$156.76</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
PPE-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair		\$0.00		\$0.00		\$0.00
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair	2.0	\$8.00	2.0	\$8.00		\$0.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each	2.0	\$13.66	2.0	\$13.66		\$0.00
PPE-Disposable PVC Pull-over Boots	No Echos	\$8.00	pair	2.0	\$16.00	2.0	\$16.00		\$0.00
PPE-Repair Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	2.0	\$30.72	2.0	\$30.72		\$0.00
Shower Towels, Disposable	No Echos	\$48.00	case	0.5	\$24.00	0.5	\$24.00		\$0.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound	5000.0	\$1,500.00		\$0.00		\$0.00
Drum Labels/DOT Markers	No Echos	\$1.50	each		\$0.00		\$0.00		\$0.00
Manifests	No Echos	\$7.50	each		\$0.00		\$0.00		\$0.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll	1.0	\$50.00	1.0	\$50.00		\$0.00
4-mil Poly Sheeting (20' by 100')	No Echos	\$65.00	roll		\$0.00		\$0.00		\$0.00
<b>TOTAL MATERIALS</b>					<b>\$1,642.38</b>		<b>\$142.38</b>		<b>\$0.00</b>

DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	60.0	\$255.00	200.0	\$850.00	25.0	\$106.25
Utilities (Electric, Phone, Internet)		\$250.00	Est./Month		\$0.00		\$0.00		\$0.00
Hotel		\$70.00	day	12.0	\$840.00		\$0.00		\$0.00
Per Diem		\$28.00	day	15.0	\$420.00		\$0.00		\$0.00
Drinking Water, Job Trailer		\$40.00	Est./Month		\$0.00		\$0.00		\$0.00
Federal, State, County and Municipal Fees		\$1.00	Units		\$0.00		\$0.00		\$0.00
Analytical - Asbestos Sample Analysis		\$10.00	each		\$0.00		\$0.00		\$0.00
Analytical - Waste Profile Sample Analysis		\$800.00	each		\$0.00		\$0.00		\$0.00
Analytical - Perimeter Air Sample Analysis		\$75.00	each		\$0.00		\$0.00		\$0.00
Analytical - Health & Safety Air Sample Analysis		\$75.00	each		\$0.00		\$0.00		\$0.00
Analytical - Surface & Storm Water Sample Analysis		\$125.00	each		\$0.00		\$0.00		\$0.00
Sampling Supplies (Sling, Ice, etc.)		\$50.00	each		\$0.00		\$0.00		\$0.00
Shipping Charges for Samples/Documents		\$35.00	each	3.0	\$105.00		\$0.00	8.0	\$280.00
Office Supplies/Copies by vendor		\$200.00	Month		\$0.00		\$0.00		\$0.00
Asbestos Waste Disposal		\$58.00	CYD		\$0.00		\$0.00		\$0.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$1,620.00</b>		<b>\$850.00</b>		<b>\$386.25</b>

SUBCONTRACTORS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Private Utility Locating Company		\$ 2,000.00	Quotes		\$0.00		\$0.00		\$0.00
Portable Sanitation Services		\$ 150.00	Est./Month		\$0.00		\$0.00		\$0.00
Electrical Sub - Temp Power Job Trailer		\$ 2,200.00	Quotes		\$0.00	0.1	\$220.00		\$0.00
Site Security Firm, Non-Working Periods, \$13/hr, 128 hr/wk		\$ 1,684.00	Week		\$0.00		\$0.00		\$0.00
Brandenburg-Mobilization		\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Group 1 Buildings		\$ 83,200.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Group 2 Buildings		\$ 279,000.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Group 3 Buildings		\$ 43,000.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Group 4 Buildings		\$ 417,000.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Rail		\$ 59,900.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Demobilization		\$ 13,000.00	Quotes		\$0.00	1.0	\$13,000.00		\$0.00
Quantity - Putrescible		1	Estimate Tons		0		0		0
Quantity - Non Putrescible		1	Estimate CYD		0		0		0
Quantity - Rail Ties		1	Estimate Tons		0		0		0
Quantity - Steel Scrap, value based on AMM 5th day pricing		\$ (280.00)	Credit, Est. Tons		\$		\$		\$
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>					<b>\$0.00</b>		<b>\$13,220.00</b>		<b>\$0.00</b>

**TOTAL ESTIMATED COST PER TASK**      \$22,591.98      \$27,355.12      \$10,771.01

**TOTAL ESTIMATED COST PER PERIOD**      \$970,603.83

**BODINE ENVIRONMENTAL SERVICES, INC.**

IEPA Cost Proposal - Structure Removal Project  
Eagle Zinc NPL Site, Hillsboro, Illinois  
Bodine Environmental Services, Inc.  
Version 1.0, May 19, 2008

				Task 01		Task 02		Task 03		Task 04	
Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client				Prepare & Submit Field Sampling Plan (FSP) & Quality Assurance Project Plan (QAPP) for IEPA Approval		Prepare and Submit Project Implementation Plan (PIP) & Health and Safety Plan (HSP) for IEPA Approval		Prepare and Submit NPDES Construction Storm Water Pollution Prevention Plan & Other Plans/Specifications for IEPA Approval		Asbestos Inspection and Notification of Renovation/Demolition to IEPA-BOA	
PERSONNEL		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Clerical	Straight	\$37.06	hour	10.0	\$370.60	10.0	\$370.60	10.0	\$370.60	4.0	\$148.24
	Overtime	\$52.95	hour		\$0.00		\$0.00		\$0.00		\$0.00
Project Technician, HazMat (Decon steel/structures and others)	Straight	\$58.24	hour		\$0.00		\$0.00		\$0.00		\$0.00
	Overtime	\$79.41	hour		\$0.00		\$0.00		\$0.00		\$0.00
Truck Driver, HazMat (On-site Water Truck)	Straight	\$63.52	hour		\$0.00		\$0.00		\$0.00		\$0.00
	Overtime	\$84.70	hour		\$0.00		\$0.00		\$0.00		\$0.00
Equipment Operator, HazMat (On-site 953 & Off Road Truck)	Straight	\$68.82	hour		\$0.00		\$0.00		\$0.00		\$0.00
	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00		\$0.00
Chemist	Straight	\$68.82	hour	30.0	\$2,064.60		\$0.00		\$0.00		\$0.00
	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00		\$0.00
Field Supervisor	Straight	\$79.41	hour	10.0	\$794.10	20.0	\$1,588.20	20.0	\$1,588.20	40.0	\$3,176.40
Project Manager	Straight	\$105.88	hour	40.0	\$4,235.20	30.0	\$3,176.40	20.0	\$2,117.60	40.0	\$4,235.20
Health & Safety Officer	Straight	\$79.41	hour		\$0.00	20.0	\$1,588.20		\$0.00	4.0	\$317.64
<b>TOTAL PERSONNEL</b>					<b>\$7,464.50</b>		<b>\$6,723.40</b>		<b>\$4,076.40</b>		<b>\$7,977.48</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	2.0	\$78.38	1.0	\$39.19	1.0	\$39.19	3.0	\$117.57
Service Vehicle/Auto	33010108	\$50.27	day		\$0.00		\$0.00		\$0.00		\$0.00
4x4 Service Vehicle	CODMA	\$10.65	hour		\$0.00		\$0.00		\$0.00		\$0.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day		\$0.00		\$0.00		\$0.00		\$0.00
Temporary Office, 32' x 8'	99140102	\$263.22	month		\$0.00		\$0.00		\$0.00		\$0.00
Temporary Storage Trailer, 16' x 8'	99140201	\$86.10	month		\$0.00		\$0.00		\$0.00		\$0.00
21,000-gallon Steel Holding Tank	19040407	\$1,297.00	month		\$0.00		\$0.00		\$0.00		\$0.00
GPS, Trimble GH (submeter accuracy)	No Echos	\$250.00	week		\$0.00		\$0.00		\$0.00		\$0.00
Bobcat	COBBC	\$25.25	hour		\$0.00		\$0.00		\$0.00		\$0.00
580 Case Extended Hoe, 4x4	CODEF	\$34.70	hour		\$0.00		\$0.00		\$0.00		\$0.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour		\$0.00		\$0.00		\$0.00		\$0.00
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour		\$0.00		\$0.00		\$0.00		\$0.00
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour		\$0.00		\$0.00		\$0.00		\$0.00
Semi Tractor - 3-axle, 46,000 GVW	XTRHC	\$43.95	hour		\$0.00		\$0.00		\$0.00		\$0.00
Lowboy or Roll-off Trailer	XXPLD	\$21.28	hour		\$0.00		\$0.00		\$0.00		\$0.00
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour		\$0.00		\$0.00		\$0.00		\$0.00
Air Hose, 1", 100feet	CALDA	\$0.97	hour		\$0.00		\$0.00		\$0.00		\$0.00
Dry Ice Blasting Machine	No Echos	\$3,000.00	month		\$0.00		\$0.00		\$0.00		\$0.00
Personal Low Flow Sampling Pump	33 02 0314	\$212.89	month		\$0.00		\$0.00		\$0.00		\$0.00
Ambient Air Monitor	33 02 0315	\$767.87	month		\$0.00		\$0.00		\$0.00		\$0.00
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day		\$0.00		\$0.00		\$0.00		\$0.00
<b>TOTAL EQUIPMENT</b>					<b>\$78.38</b>		<b>\$39.19</b>		<b>\$39.19</b>		<b>\$117.57</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
PPE-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Disposable Coveralls (Tyvek/Polycarbonate)	33010424	\$6.83	each		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair		\$0.00		\$0.00		\$0.00		\$0.00
Shower Towels, Disposable	No Echos	\$48.00	case		\$0.00		\$0.00		\$0.00		\$0.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound		\$0.00		\$0.00		\$0.00		\$0.00
Drum Labels/DOT Markers	No Echos	\$1.50	each		\$0.00		\$0.00		\$0.00		\$0.00
Manifests	No Echos	\$7.50	each		\$0.00		\$0.00		\$0.00		\$0.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll		\$0.00		\$0.00		\$0.00		\$0.00
4-mil Poly Sheeting (20' by 100')	No Echos	\$65.00	roll		\$0.00		\$0.00		\$0.00		\$0.00
<b>TOTAL MATERIALS</b>					<b>\$0.00</b>		<b>\$0.00</b>		<b>\$0.00</b>		<b>\$0.00</b>

DIRECT COSTS & FIELD PURCHASES (no markup)	Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon	\$4.25	gallons	8.0	\$34.00	4.0	\$17.00	4.0	\$17.00	15.0	\$63.75
Utilities (Electric, Phone, Internet)	\$250.00	Est /Month		\$0.00		\$0.00		\$0.00		\$0.00
Hotel	\$70.00	day		\$0.00		\$0.00		\$0.00		\$0.00
Per Diem	\$28.00	day		\$0.00		\$0.00		\$0.00		\$0.00
Drinking Water, Job Trailer	\$40.00	Est /Month		\$0.00		\$0.00		\$0.00		\$0.00
Federal, State, County and Municipal Fees	\$1.00	Units		\$0.00		\$0.00		\$0.00	150.0	\$150.00
Analytical - Asbestos Sample Analysis	\$10.00	each		\$0.00		\$0.00		\$0.00	100.0	\$1,000.00
Analytical - Waste Profile Sample Analysis	\$800.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Perimeter Air Sample Analysis	\$75.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Health & Safety Air Sample Analysis	\$75.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Surface & Storm Water Sample Analysis	\$125.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Sampling Supplies (Sling, Ice, etc.)	\$50.00	each		\$0.00		\$0.00		\$0.00	2.0	\$100.00
Shipping Charges for Samples/Documents	\$35.00	each	3.0	\$105.00	3.0	\$105.00	3.0	\$105.00	1.0	\$35.00
Office Supplies/Copies by vendor	\$200.00	Month		\$0.00		\$0.00		\$0.00		\$0.00
Asbestos Waste Disposal	\$58.00	CYD		\$0.00		\$0.00		\$0.00		\$0.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>				<b>\$139.00</b>		<b>\$122.00</b>		<b>\$122.00</b>		<b>\$1,348.75</b>

SUBCONTRACTORS											
Private Utility Locating Company	\$ 2,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Portable Sanitation Services	\$ 150.00	Est /Month		\$0.00		\$0.00		\$0.00		\$0.00	
Electrical Sub - Temp Power Job Trailer	\$ 2,200.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Site Security Firm, Non-Working Periods, \$13/hr, 128 hr/wk	\$ 1,664.00	Week		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Mobilization	\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Group 1 Buildings	\$ 83,200.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Group 2 Buildings	\$ 279,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Group 3 Buildings	\$ 43,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Group 4 Buildings	\$ 417,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Rail	\$ 59,900.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Brandenburg-Demobilization	\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00	
Quantity - Putrescible	1	Estimate Tons		0		0		0		0	
Quantity - Non Putrescible	1	Estimate CYD		0		0		0		0	
Quantity - Rail Ties	1	Estimate Tons		0		0		0		0	
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$ (260.00)	Credit, Est. Tons		\$		\$		\$		\$	
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>				<b>\$0.00</b>		<b>\$0.00</b>		<b>\$0.00</b>		<b>\$0.00</b>	

**TOTAL ESTIMATED COST PER TASK** \$7,681.66 \$6,884.59 \$4,237.59 \$7,343.80

**TOTAL ESTIMATED COST PER PERIOD** \$970,603.83  
**BODINE ENVIRONMENTAL SERVICES, INC.**

IEPA Cost Proposal - Structure Removal Project  
Eagle Zinc NPL Site, Hillsboro, Illinois  
Bodine Environmental Services, Inc.  
Version 1.0, May 19, 2008

				Task 05		Task 06		Task 07		Task 08	
Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client				Waste Profile Sampling, Analysis and Profile Approval by TSD for Off-Site Waste Disposal		JULIE/Utility Locates & On-Site Project Equipment, Direct and Materials Expenses (not itemized in other tasks)		Project Administration for Mobilization, On-Site and Demobilization Activities.		Mobilization of Personnel, Equipment and Materials	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Clerical	Straight	\$37.06	hour		\$0.00		\$0.00	30.0	\$1,111.80		\$0.00
	Overtime	\$52.95	hour		\$0.00		\$0.00		\$0.00		\$0.00
Project Technician, HazMat	Straight	\$58.24	hour	8.0	\$465.92	8.0	\$465.92		\$0.00	40.0	\$2,329.60
(Decon steel structures and others)	Overtime	\$79.41	hour	2.0	\$158.82	2.0	\$158.82		\$0.00	10.0	\$794.10
Truck Driver, HazMat	Straight	\$63.52	hour		\$0.00		\$0.00	40.0	\$2,540.80	40.0	\$2,540.80
(On-site Water Truck)	Overtime	\$84.70	hour		\$0.00		\$0.00		\$0.00	10.0	\$847.00
Equipment Operator, HazMat	Straight	\$68.82	hour		\$0.00		\$0.00		\$0.00	8.0	\$550.56
(On-site 953 & Off Road Truck)	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00	2.0	\$180.00
Chemist	Straight	\$68.82	hour		\$0.00		\$0.00	30.0	\$2,064.60		\$0.00
	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00		\$0.00
Field Supervisor	Straight	\$79.41	hour	10.0	\$794.10	10.0	\$794.10	40.0	\$3,176.40	50.0	\$3,970.50
Project Manager	Straight	\$105.88	hour	8.0	\$847.04	20.0	\$2,117.60	120.0	\$12,705.60	10.0	\$1,058.80
Health & Safety Officer	Straight	\$79.41	hour		\$0.00		\$0.00	40.0	\$3,176.40		\$0.00
<b>TOTAL PERSONNEL</b>					<b>\$2,265.88</b>		<b>\$3,536.44</b>		<b>\$24,775.60</b>		<b>\$12,271.36</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	1.0	\$39.19	2.0	\$78.38	18.0	\$705.42	5.0	\$195.95
Service Vehicle/Auto	33010108	\$50.27	day		\$0.00	1.0	\$50.27		\$0.00	5.0	\$251.35
4x4 Service Vehicle	CODMA	\$10.65	hour		\$0.00	8.0	\$85.20		\$0.00	40.0	\$426.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day		\$0.00		\$0.00		\$0.00	2.0	\$271.00
Temporary Office, 32' x 8'	99140102	\$263.22	month		\$0.00	4.0	\$1,052.88		\$0.00		\$0.00
Temporary Storage Trailer, 16' x 8'	99140201	\$86.10	month		\$0.00	4.0	\$344.40		\$0.00		\$0.00
21,000-gallon Steel Holding Tank	19040407	\$1,297.00	month		\$0.00	4.0	\$5,188.00		\$0.00		\$0.00
GPS, Trimble GH (submeter accuracy)	No Echos	\$250.00	week		\$0.00	4.0	\$1,000.00		\$0.00		\$0.00
Bobcat	COBBC	\$25.25	hour		\$0.00		\$0.00		\$0.00		\$0.00
580 Case Extended Ho6, 4x4	CODEF	\$34.70	hour		\$0.00		\$0.00		\$0.00		\$0.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour		\$0.00		\$0.00		\$0.00		\$0.00
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour		\$0.00		\$0.00		\$0.00		\$0.00
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour		\$0.00		\$0.00		\$0.00		\$0.00
Semi Tractor -3-axle, 46,000 GVW	XTRHC	\$43.95	hour		\$0.00		\$0.00		\$0.00	20.0	\$879.00
Lowboy or Roll-off Trailer	XXPLD	\$21.28	hour		\$0.00		\$0.00		\$0.00	20.0	\$425.60
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour		\$0.00		\$0.00		\$0.00		\$0.00
Air Hose, 1", 100feet	CALDA	\$0.97	hour		\$0.00		\$0.00		\$0.00		\$0.00
Dry Ice Blasting Machine	No Echos	\$3,000.00	month		\$0.00		\$0.00		\$0.00		\$0.00
Personal Low Flow Sampling Pump	33 02 0314	\$212.89	month		\$0.00	4.0	\$851.56		\$0.00		\$0.00
Ambient Air Monitor	33 02 0315	\$767.87	month		\$0.00	4.0	\$3,071.48		\$0.00		\$0.00
Trash Pump - 3" 150 GPM	17 03 1003	\$46.95	day		\$0.00	15.0	\$704.25		\$0.00		\$0.00
<b>TOTAL EQUIPMENT</b>					<b>\$39.19</b>		<b>\$12,426.42</b>		<b>\$705.42</b>		<b>\$2,448.90</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
E-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair		\$0.00		\$0.00		\$0.00		\$0.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair		\$0.00		\$0.00		\$0.00		\$0.00
Shower Towels, Disposable	No Echos	\$48.00	case		\$0.00		\$0.00		\$0.00		\$0.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound		\$0.00		\$0.00		\$0.00		\$0.00
Drum Labels/DOT Markers	No Echos	\$1.50	each		\$0.00	50.0	\$75.00		\$0.00		\$0.00
Manifests	No Echos	\$7.50	each		\$0.00	100.0	\$750.00		\$0.00		\$0.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll		\$0.00	2.0	\$100.00		\$0.00		\$0.00
4-mil Poly Sheeting (20' by 100')	No Echos	\$65.00	roll		\$0.00	4.0	\$260.00		\$0.00		\$0.00
<b>TOTAL MATERIALS</b>					<b>\$0.00</b>		<b>\$1,185.00</b>		<b>\$0.00</b>		<b>\$0.00</b>

DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	8.0	\$34.00	60.0	\$255.00	90.0	\$382.50	180.0	\$765.00
Utilities (Electric, Phone, Internet)		\$250.00	Est./Month		\$0.00	4.0	\$1,000.00		\$0.00		\$0.00
Hotel		\$70.00	day		\$0.00	1.0	\$70.00		\$0.00		\$0.00
Per Diem		\$28.00	day		\$0.00	2.0	\$56.00		\$0.00		\$0.00
Drinking Water, Job Trailer		\$40.00	Est./Month		\$0.00	4.0	\$160.00		\$0.00		\$0.00
Federal, State, County and Municipal Fees		\$1.00	Units		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Asbestos Sample Analysis		\$10.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Waste Profile Sample Analysis		\$800.00	each	1.0	\$800.00		\$0.00		\$0.00		\$0.00
Analytical - Perimeter Air Sample Analysis		\$75.00	each		\$0.00		\$0.00	1.0	\$75.00		\$0.00
Analytical - Health & Safety Air Sample Analysis		\$75.00	each		\$0.00		\$0.00		\$0.00		\$0.00
Analytical - Surface & Storm Water Sample Analysis		\$125.00	each		\$0.00		\$0.00	1.0	\$125.00		\$0.00
Sampling Supplies (Sling, Ice, etc.)		\$50.00	each		\$0.00		\$0.00	5.0	\$250.00		\$0.00
Shipping Charges for Samples/Documents		\$35.00	each		\$0.00		\$0.00	5.0	\$175.00		\$0.00
Office Supplies/Copies by vendor		\$200.00	Month		\$0.00		\$0.00	4.0	\$800.00		\$0.00
Asbestos Waste Disposal		\$58.00	CYD		\$0.00		\$0.00	4.0	\$232.00		\$0.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$834.00</b>		<b>\$1,541.00</b>		<b>\$2,039.50</b>		<b>\$785.00</b>

SUBCONTRACTORS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Private Utility Locating Company		\$ 2,000.00	Quotes		\$0.00	1.0	\$2,000.00		\$0.00		\$0.00
Portable Sanitation Services		\$ 150.00	Est./Month		\$0.00	4.0	\$600.00		\$0.00		\$0.00
Electrical Sub - Temp. Power Job Trailer		\$ 2,200.00	Quotes		\$0.00	1.0	\$2,200.00		\$0.00		\$0.00
Site Security Firm, Non-Working Periods, \$13/hr, 128 hr/wk		\$ 1,664.00	Week		\$0.00	17.5	\$29,120.00		\$0.00		\$0.00
Brandenburg-Mobilization		\$ 13,000.00	Quotes		\$0.00		\$0.00	1.0	\$13,000.00		\$0.00
Brandenburg-Group 1 Buildings		\$ 83,200.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Group 2 Buildings		\$ 279,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Group 3 Buildings		\$ 43,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Group 4 Buildings		\$ 417,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Rail		\$ 59,900.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Brandenburg-Demobilization		\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00		\$0.00
Quantity - Putrescible	1		Estimate Tons		0		0		0		0
Quantity - Non Putrescible	1		Estimate CYD		0		0		0		0
Quantity - Rail Ties	1		Estimate Tons		0		0		0		0
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$ (280.00)	Credit, Est Tons			\$		\$		\$		\$
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>					<b>\$0.00</b>		<b>\$33,920.00</b>		<b>\$13,000.00</b>		<b>\$0.00</b>

**TOTAL ESTIMATED COST PER TASK** **\$3,139.07** **\$52,608.86** **\$40,520.52** **\$15,485.26**

**TOTAL ESTIMATED COST PER PERIOD** **\$970,603.83**  
**BODINE ENVIRONMENTAL SERVICES, INC.**



IEPA Cost Proposal - Structure Removal Project  
 Eagle Zinc NPL Site, Hillsboro, Illinois  
 Bodine Environmental Services, Inc.  
 Version 1.0, May 19, 2008

				Task 09		Task 10		Task 11		Task 12	
Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client				Asbestos Abatement - Removal, Transportation and Disposal (Supply Building)		Health and Safety & Perimeter Air Monitoring		Rail Track and Ties (Estimate 6,000 linear feet)		Group 1 Structures	
PERSONNEL		Unit Rates from HWA-6303 and ECHOS	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Clerical	Straight	\$37.06	hour		\$0.00		\$0.00		\$0.00		\$0.00
	Overtime	\$52.95	hour		\$0.00		\$0.00		\$0.00		\$0.00
Project Technician, HazMat (Decon steel/structures and others)	Straight	\$58.24	hour	40.0	\$2,329.60		\$0.00	80.0	\$4,659.20	80.0	\$4,659.20
	Overtime	\$79.41	hour	10.0	\$794.10		\$0.00	20.0	\$1,588.20	20.0	\$1,588.20
Truck Driver, HazMat (On-site Water Truck)	Straight	\$63.52	hour	8.0	\$508.16		\$0.00	40.0	\$2,540.80	40.0	\$2,540.80
	Overtime	\$84.70	hour		\$0.00		\$0.00	10.0	\$847.00	10.0	\$847.00
Equipment Operator, HazMat (On-site 953 & Off Road Truck)	Straight	\$68.82	hour		\$0.00		\$0.00	40.0	\$2,752.80	40.0	\$2,752.80
	Overtime	\$90.00	hour		\$0.00		\$0.00	10.0	\$900.00	10.0	\$900.00
Chemist	Straight	\$68.82	hour		\$0.00		\$0.00		\$0.00		\$0.00
	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00		\$0.00
Field Supervisor	Straight	\$79.41	hour	20.0	\$1,588.20		\$0.00	30.0	\$2,382.30	30.0	\$2,382.30
Project Manager	Straight	\$105.88	hour	8.0	\$847.04		\$0.00	20.0	\$2,117.60	20.0	\$2,117.60
Health & Safety Officer	Straight	\$79.41	hour	4.0	\$317.64	72.0	\$5,717.52		\$0.00		\$0.00
TOTAL PERSONNEL					\$6,384.74		\$5,717.52		\$17,787.90		\$17,787.90
EQUIPMENT				Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	5.0	\$195.95	18.0	\$705.42	5.0	\$195.95	5.0	\$195.95
Service Vehicle/Auto	33010108	\$50.27	day		\$0.00		\$0.00	2.0	\$100.54	5.0	\$251.35
4x4 Service Vehicle	CODMA	\$10.65	hour	20.0	\$213.00		\$0.00	40.0	\$426.00	40.0	\$426.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day	1.0	\$135.50		\$0.00		\$0.00		\$0.00
Temporary Office, 32' x 8'	99140102	\$263.22	month		\$0.00		\$0.00		\$0.00		\$0.00
Temporary Storage Trailer, 16' x 8'	99140201	\$86.10	month		\$0.00		\$0.00		\$0.00		\$0.00
21,000-gallon Steel Holding Tank	19040407	\$1,297.00	month		\$0.00		\$0.00		\$0.00		\$0.00
GPS, Trimble GH (submeter accuracy)	No EchOS	\$250.00	week		\$0.00		\$0.00		\$0.00		\$0.00
Bobcat	COBBC	\$25.25	hour		\$0.00		\$0.00		\$0.00	20.0	\$505.00
580 Case Extended Hoe, 4x4	CODEF	\$34.70	hour		\$0.00		\$0.00		\$0.00		\$0.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour		\$0.00		\$0.00	20.0	\$1,392.60	20.0	\$1,392.60
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour		\$0.00		\$0.00	40.0	\$1,289.20	40.0	\$1,289.20
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour		\$0.00		\$0.00	20.0	\$2,026.40	20.0	\$2,026.40
Semi Tractor -3-axle, 46,000 GVW	XTRHC	\$43.95	hour		\$0.00		\$0.00		\$0.00		\$0.00
Lowboy or Roll-off Trailer	XXPLD	\$21.28	hour		\$0.00		\$0.00		\$0.00		\$0.00
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour		\$0.00		\$0.00		\$0.00	20.0	\$397.60
Air Hose, 1", 100feet	CALDA	\$0.97	hour		\$0.00		\$0.00		\$0.00	20.0	\$19.40
Dry Ice Blasting Machine	No EchOS	\$3,000.00	month		\$0.00		\$0.00		\$0.00	0.25	\$750.00
Personal Low Flow Sampling Pump	33 02 0314	\$212.89	month	0.2	\$42.58	16.0	\$3,406.24		\$0.00		\$0.00
Ambient Air Monitor	33 02 0315	\$767.87	month		\$0.00	16.0	\$12,285.92		\$0.00		\$0.00
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day		\$0.00		\$0.00	2.0	\$93.90		\$93.90
TOTAL EQUIPMENT					\$587.03		\$18,397.58		\$5,524.59		\$7,347.40
MATERIALS				Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Disposable Nitrile Sample Gloves	33010423	\$0.22	pair	4.0	\$0.88		\$0.00	5.0	\$1.10		\$0.00
PPE-Nitrile Work Gloves	No EchOS	\$4.00	pair	4.0	\$16.00		\$0.00	5.0	\$20.00	10.0	\$40.00
PPE-Disposable Coveralls (Tyvek/Polycotton)	33010424	\$6.83	each	4.0	\$27.32		\$0.00	5.0	\$34.15	10.0	\$68.30
PPE-Disposable PVC Pull-over Boots	No EchOS	\$8.00	pair	4.0	\$32.00		\$0.00	5.0	\$40.00	10.0	\$80.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	4.0	\$61.44		\$0.00	5.0	\$76.80	10.0	\$153.60
Shower Towels, Disposable	No EchOS	\$48.00	case	1.0	\$48.00		\$0.00	1.0	\$48.00	1.0	\$48.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No EchOS	\$0.30	pound		\$0.00		\$0.00	0.0	\$0.00	500.0	\$150.00
Drum Labels/DOT Markers	No EchOS	\$1.50	each		\$0.00		\$0.00		\$0.00		\$0.00
Manifests	No EchOS	\$7.50	each	1.0	\$7.50		\$0.00		\$0.00		\$0.00
4-mil Poly Bags (75 count)	No EchOS	\$50.00	roll	1.0	\$50.00		\$0.00	1.0	\$50.00	1.0	\$50.00
4-mil Poly Sheeting (20' by 100')	No EchOS	\$65.00	roll	1.0	\$65.00		\$0.00		\$0.00		\$0.00
TOTAL MATERIALS					\$308.14		\$0.00		\$270.05		\$89.00
DIRECT COSTS & FIELD PURCHASES (no markup)				Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon	\$4.25	gallons	32.0	\$136.00		30.0	\$127.50	200.0	\$850.00	250.0	\$1,062.50
Utilities (Electric, Phone, Internet)	\$250.00	Est./Month		\$0.00			\$0.00		\$0.00		\$0.00
Hotel	\$70.00	day	3.0	\$210.00			\$0.00	20.0	\$1,400.00	20.0	\$1,400.00
Per Diem	\$28.00	day	6.0	\$168.00			\$0.00	25.0	\$700.00	25.0	\$700.00
Drinking Water, Job Trailer	\$40.00	Est./Month		\$0.00			\$0.00		\$0.00		\$0.00
Federal, State, County and Municipal Fees	\$1.00	Units		\$0.00			\$0.00		\$0.00		\$0.00
Analytical - Asbestos Sample Analysis	\$10.00	each		\$0.00			\$0.00		\$0.00		\$0.00
Analytical - Waste Profile Sample Analysis	\$800.00	each		\$0.00			\$0.00		\$0.00		\$0.00
Analytical - Perimeter Air Sample Analysis	\$75.00	each		\$0.00		36.0	\$2,700.00		\$0.00		\$0.00
Analytical - Health & Safety Air Sample Analysis	\$75.00	each	2.0	\$150.00		18.0	\$1,350.00		\$0.00		\$0.00
Analytical - Surface & Storm Water Sample Analysis	\$125.00	each		\$0.00			\$0.00		\$0.00		\$0.00
Sampling Supplies (String, etc.)	\$50.00	each		\$0.00		18.0	\$900.00		\$0.00		\$0.00
Shipping Charges for Samples/Documents	\$35.00	each	1.0	\$35.00		18.0	\$630.00		\$0.00		\$0.00
Office Supplies/Copies by vendor	\$200.00	Month		\$0.00			\$0.00		\$0.00		\$0.00
Asbestos Waste Disposal	\$58.00	CYD	2.0	\$116.00			\$0.00		\$0.00		\$0.00
TOTAL DIRECT COSTS & FIELD PURCHASES					\$915.00		\$5,707.50		\$2,950.00		\$3,162.50
SUBCONTRACTORS											
Private Utility Locating Company	\$ 2,000.00	Quotes		\$0.00			\$0.00		\$0.00		\$0.00
Portable Sanitation Services	\$ 150.00	Est./Month		\$0.00			\$0.00		\$0.00		\$0.00
Electrical Sub - Temp. Power Job Trailer	\$ 2,200.00	Quotes		\$0.00			\$0.00		\$0.00		\$0.00
Site Security Firm, Non-Working Periods, \$13/hr, 128 hr/wk	\$ 1,664.00	Week		\$0.00			\$0.00		\$0.00		\$0.00
Brandenburg-Mobilization	\$ 13,000.00	Quotes		\$0.00			\$0.00		\$0.00		\$0.00
Brandenburg-Group 1 Buildings	\$ 83,200.00	Quotes		\$0.00			\$0.00		\$0.00		\$0.00
Brandenburg-Group 2 Buildings	\$ 279,000.00	Quotes		\$0.00			\$0.00		\$0.00	1.0	\$83,200.00
Brandenburg-Group 3 Buildings	\$ 43,000.00	Quotes		\$0.00			\$0.00		\$0.00		\$0.00
Brandenburg-Group 4 Buildings	\$ 417,000.00	Quotes		\$0.00			\$0.00		\$0.00		\$0.00
Brandenburg-Rail	\$ 59,900.00	Quotes		\$0.00			\$0.00	1.0	\$59,900.00		\$0.00
Brandenburg-Demobilization	\$ 13,000.00	Quotes		\$0.00			\$0.00		\$0.00		\$0.00
Quantity - Pulverizable	1	Estimate Tons		0			0		0	405	405
Quantity - Non Pulverizable	1	Estimate CYD		0			0		0	1490	1490
Quantity - Rail Ties	1	Estimate Tons		0			0		360		
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$ (280.00)	Credit, Est. Tons		\$		\$		255	\$ (71,400.00)	24	\$ (6,720.00)
TOTAL SUBCONTRACTORS OR PURCHASES					\$0.00		\$0.00		\$60,260.00		\$85,095.00
TOTAL ESTIMATED COST PER TASK					\$6,094.51		\$27,822.60		\$88,792.54		\$113,982.70
TOTAL ESTIMATED COST PER PERIOD					\$970,603.83						
BODINE ENVIRONMENTAL SERVICES, INC.											

IEPA Cost Proposal - Structure Removal Project  
Eagle Zinc NPL Site, Hillsboro, Illinois  
Bodine Environmental Services, Inc.  
Version 1.0, May 19, 2008

				Task 13		Task 14		Task 15	
				Group 2 Structures		Group 3 Structures		Group 4 Structures	
				Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client									
Unit Rates from HWA-6303 and ECHOS									
PERSONNEL		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Clerical	Straight	\$37.06	hour		\$0.00		\$0.00		\$0.00
	Overtime	\$52.95	hour		\$0.00		\$0.00		\$0.00
Project Technician, HazMat	Straight	\$58.24	hour	800.0	\$46,592.00	160.0	\$9,318.40	1280.0	\$74,547.20
(Dacon steel/structures and others)	Overtime	\$79.41	hour	200.0	\$15,882.00	40.0	\$3,176.40	320.0	\$25,411.20
Truck Driver, HazMat	Straight	\$63.52	hour	200.0	\$12,704.00	40.0	\$2,540.80	320.0	\$20,326.40
(On-site Water Truck)	Overtime	\$84.70	hour	50.0	\$4,235.00	10.0	\$847.00	80.0	\$6,776.00
Equipment Operator, HazMat	Straight	\$68.82	hour	200.0	\$13,764.00	40.0	\$2,752.80	320.0	\$22,022.40
(On-site 953 & Off Road Truck)	Overtime	\$90.00	hour	50.0	\$4,500.00	10.0	\$900.00	80.0	\$7,200.00
Chemist	Straight	\$68.82	hour		\$0.00		\$0.00		\$0.00
	Overtime	\$90.00	hour		\$0.00		\$0.00		\$0.00
Field Supervisor	Straight	\$79.41	hour	250.0	\$19,852.50	50.0	\$3,970.50	300.0	\$23,823.00
Project Manager	Straight	\$105.88	hour	20.0	\$2,117.60	10.0	\$1,058.80	100.0	\$10,588.00
Health & Safety Officer	Straight	\$79.41	hour		\$0.00		\$0.00		\$0.00
<b>TOTAL PERSONNEL</b>					<b>\$19,647.10</b>		<b>\$24,554.70</b>		<b>\$190,694.20</b>

EQUIPMENT		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	\$39.19	day	25.0	\$979.75	5.0	\$195.95	40.0	\$1,567.60
Service Vehicle/Auto	33010108	\$50.27	day	25.0	\$1,256.75	5.0	\$251.35	20.0	\$1,005.40
4x4 Service Vehicle	CODMA	\$10.65	hour	100.0	\$1,065.00	40.0	\$426.00	80.0	\$852.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	\$135.50	day		\$0.00		\$0.00		\$0.00
Temporary Office, 32' x 8'	99140102	\$263.22	month		\$0.00		\$0.00		\$0.00
Temporary Storage Trailer, 16' x 8'	99140201	\$86.10	month		\$0.00		\$0.00		\$0.00
21,000-gallon Steel Holding Tank	19040407	\$1,297.00	month		\$0.00		\$0.00		\$0.00
GPS, Trimble GH (submeter accuracy)	No Echos	\$250.00	week		\$0.00		\$0.00		\$0.00
Bobcat	COBBC	\$25.25	hour	200.0	\$5,050.00	40.0	\$1,010.00	320.0	\$8,080.00
580 Case Extended Hoe, 4x4	CODEF	\$34.70	hour		\$0.00		\$0.00		\$0.00
CAT 953, 4 in 1 bucket	CODLG	\$69.63	hour	100.0	\$6,963.00	20.0	\$1,392.60	160.0	\$11,140.80
Truck, Water, Off-Highway - dust suppression	COFWK	\$32.23	hour	200.0	\$6,446.00	40.0	\$1,289.20	320.0	\$10,313.60
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	\$101.32	hour	100.0	\$10,132.00	20.0	\$2,026.40	160.0	\$16,211.20
Semi Tractor -3-axle, 46,000 GVW	XTRHC	\$43.95	hour		\$0.00		\$0.00		\$0.00
Lowboy or Roll-off Trailer	XXPLD	\$21.28	hour		\$0.00		\$0.00		\$0.00
Air Compressor, 375 CFM, 100 PSI	CALDA	\$19.88	hour	200.0	\$3,976.00	40.0	\$795.20	320.0	\$6,361.60
Air Hose, 1", 100feet	CALDA	\$0.97	hour	200.0	\$194.00	40.0	\$38.80	320.0	\$310.40
Dry Ice Blasting Machine	No Echos	\$3,000.00	month	1.25	\$3,750.00	0.25	\$750.00	2.00	\$6,000.00
Personal Low Flow Sampling Pump	33 02 0314	\$212.89	month		\$0.00		\$0.00		\$0.00
Ambient Air Monitor	33 02 0315	\$767.87	month		\$0.00		\$0.00		\$0.00
Trash Pump - 3", 150 GPM	17 03 1003	\$46.95	day	2.0	\$93.90	2.0	\$93.90	2.0	\$93.90
<b>TOTAL EQUIPMENT</b>					<b>\$39,906.40</b>		<b>\$8,289.40</b>		<b>\$61,936.50</b>

MATERIALS		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
PPE-Disposable Nitrile Sample Gloves	33010423	\$0.22	pair		\$0.00		\$0.00		\$0.00
PPE-Nitrile Work Gloves	No Echos	\$4.00	pair	50.0	\$200.00	10.0	\$40.00	80.0	\$320.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	\$6.83	each	50.0	\$341.50	10.0	\$68.30	80.0	\$546.40
PPE-Disposable PVC Pull-over Booties	No Echos	\$8.00	pair	50.0	\$400.00	10.0	\$80.00	80.0	\$640.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	\$15.36	pair	50.0	\$768.00	10.0	\$153.60	80.0	\$1,228.80
Shower Towels, Disposable	No Echos	\$48.00	case	2.0	\$96.00	1.0	\$48.00	3.0	\$144.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	\$0.30	pound	2500.0	\$750.00	500.0	\$150.00	4000.0	\$1,200.00
Drum Labels/DOT Markers	No Echos	\$1.50	each		\$0.00		\$0.00		\$0.00
Manifests	No Echos	\$7.50	each		\$0.00		\$0.00		\$0.00
4-mil Poly Bags (75 count)	No Echos	\$50.00	roll	1.0	\$50.00	1.0	\$50.00	1.0	\$50.00
4-mil Poly Sheeting (20' by 100')	No Echos	\$65.00	roll		\$0.00		\$0.00		\$0.00
<b>TOTAL MATERIALS</b>					<b>\$2,605.50</b>		<b>\$689.90</b>		<b>\$4,129.20</b>

DIRECT COSTS & FIELD PURCHASES (no markup)		Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon		\$4.25	gallons	650.0	\$2,762.50	250.0	\$1,062.50	650.0	\$2,762.50
Utilities (Electric, Phone, Internet)		\$250.00	Est./Month		\$0.00		\$0.00		\$0.00
Hotel		\$70.00	day	140.0	\$9,800.00	28.0	\$1,960.00	224.0	\$15,680.00
Per Diem		\$28.00	day	175.0	\$4,900.00	35.0	\$980.00	280.0	\$7,840.00
Drinking Water, Job Trailer		\$40.00	Est./Month		\$0.00		\$0.00		\$0.00
Federal, State, County and Municipal Fees		\$1.00	Units		\$0.00		\$0.00		\$0.00
Analytical - Asbestos Sample Analysis		\$10.00	each		\$0.00		\$0.00		\$0.00
Analytical - Waste Profile Sample Analysis		\$800.00	each		\$0.00		\$0.00		\$0.00
Analytical - Penmeter Air Sample Analysis		\$75.00	each		\$0.00		\$0.00		\$0.00
Analytical - Health & Safety Air Sample Analysis		\$75.00	each		\$0.00		\$0.00		\$0.00
Analytical - Surface & Storm Water Sample Analysis		\$125.00	each		\$0.00		\$0.00		\$0.00
Sampling Supplies (Sting, Ice, etc.)		\$50.00	each		\$0.00		\$0.00		\$0.00
Shipping Charges for Samples/Documents		\$35.00	each		\$0.00		\$0.00		\$0.00
Office Supplies/Copies by vendor		\$200.00	Month		\$0.00		\$0.00		\$0.00
Asbestos Waste Disposal		\$58.00	CYD		\$0.00		\$0.00		\$0.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>					<b>\$17,462.50</b>		<b>\$4,002.50</b>		<b>\$26,282.50</b>

SUBCONTRACTORS									
Private Utility Locating Company	\$ 2,000.00	Quotes		\$0.00		\$0.00		\$0.00	
Portable Sanitation Services	\$ 150.00	Est./Month		\$0.00		\$0.00		\$0.00	
Electrical Sub - Temp Power Job Trailer	\$ 2,200.00	Quotes		\$0.00		\$0.00		\$0.00	
Site Security Firm - Non-Working Periods, \$13/hr, 128 hr/wk	\$ 1,664.00	Week		\$0.00		\$0.00		\$0.00	
Brandenburg-Mobilization	\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00	
Brandenburg-Group 1 Buildings	\$ 83,200.00	Quotes		\$0.00		\$0.00		\$0.00	
Brandenburg-Group 2 Buildings	\$ 279,000.00	Quotes	1.0	\$279,000.00		\$0.00		\$0.00	
Brandenburg-Group 3 Buildings	\$ 43,000.00	Quotes		\$0.00		\$0.00		\$0.00	
Brandenburg-Group 4 Buildings	\$ 417,000.00	Quotes		\$0.00		\$0.00		\$0.00	
Brandenburg-Rail	\$ 59,900.00	Quotes		\$0.00		\$0.00		\$0.00	
Brandenburg-Demobilization	\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00	
Quantity - Putscribble	1	Estimate Tons	185	185	41	41	519	519	
Quantity - Non Putscribble	1	Estimate CYD	3812	3812	1189	1189	4415	4415	
Quantity - Rail Ties	1	Estimate Tons		0		0		0	
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$ (280.00)	Credit, Est. Tons	648	\$ (181,440.00)	46	\$ (12,880.00)	1584	\$ (443,520.00)	
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>					<b>\$282,997.00</b>		<b>\$44,230.00</b>		<b>\$421,934.00</b>

<b>TOTAL ESTIMATED COST PER TASK</b>					<b>\$462,818.50</b>		<b>\$81,858.50</b>		<b>\$704,976.40</b>
--------------------------------------	--	--	--	--	---------------------	--	--------------------	--	---------------------

**TOTAL ESTIMATED COST PER PERIOD** \$970,603.83  
**BODINE ENVIRONMENTAL SERVICES, INC.**

IEPA Cost Proposal - Structure Removal Project  
Eagle Zinc NPL Site, Hillsboro, Illinois  
Bodine Environmental Services, Inc.  
Version 1.0, May 19, 2008

				Task 16		Task 17		Task 18	
Estimated costs prepared and obtained by Bodine Environmental Services, Inc. in accordance with proposed scope of work, as indicated by Client				Perform Project Completion On-Site Inspection and Closeout Activities as Identified by IEPA		Demobilization of Personnel, Equipment and Materials		Preparation and Submission of Project Completion Report	
Unit Rates from HWA-6303 and ECHOS				Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
PERSONNEL	Rate	Units							
Clenical	Straight \$37.06	hour			\$0.00		\$0.00	12.0	\$444.72
	Overtime \$52.95	hour			\$0.00		\$0.00		\$0.00
Project Technician, HazMat (Decon steel/structures and others)	Straight \$56.24	hour			\$4,659.20	40.0	\$2,329.60		\$0.00
	Overtime \$79.41	hour		80.0	\$1,588.20	10.0	\$794.10		\$0.00
Truck Driver, HazMat (On-site Water Truck)	Straight \$63.52	hour			\$0.00	32.0	\$2,032.64		\$0.00
	Overtime \$84.70	hour			\$0.00	6.0	\$508.20		\$0.00
Equipment Operator, HazMat (On-site 953 & Off Road Truck)	Straight \$68.82	hour		40.0	\$2,752.80		\$0.00		\$0.00
	Overtime \$90.00	hour		10.0	\$900.00		\$0.00		\$0.00
Chemist	Straight \$68.82	hour			\$0.00		\$0.00	16.0	\$1,101.12
	Overtime \$90.00	hour			\$0.00		\$0.00		\$0.00
Field Supervisor	Straight \$79.41	hour		20.0	\$1,588.20	50.0	\$3,970.50	40.0	\$3,176.40
Project Manager	Straight \$105.88	hour		50.0	\$5,294.00	10.0	\$1,058.80	40.0	\$4,235.20
Health & Safety Officer	Straight \$79.41	hour			\$0.00		\$0.00	16.0	\$1,270.56
<b>TOTAL PERSONNEL</b>					<b>\$16,782.40</b>		<b>\$10,693.84</b>		<b>\$10,228.00</b>

EQUIPMENT	Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Service Vehicle/Truck 4x2	33010102	day	5.0	\$195.95	5.0	\$195.95	4.0	\$156.76
Service Vehicle/Auto	33010108	day		\$0.00	5.0	\$251.35		\$0.00
4x4 Service Vehicle	CODMA	hour	50.0	\$532.50	40.0	\$426.00		\$0.00
2-Axle, Truck 21,700 GVW, 4x2 (Cube Van)	33010109	day		\$0.00	2.0	\$271.00		\$0.00
Temporary Office, 32' x 8'	99140102	month		\$0.00		\$0.00		\$0.00
Temporary Storage Trailer, 16' x 8'	99140201	month		\$0.00		\$0.00		\$0.00
21,000-gallon Steel Holding Tank	19040407	month		\$0.00		\$0.00		\$0.00
GPS, Trimble GH (submeter accuracy)	No Echos	week		\$0.00		\$0.00		\$0.00
Bobcat	COBBC	hour		\$0.00		\$0.00		\$0.00
580 Case Extended Hoe, 4x4	CODEF	hour		\$0.00		\$0.00		\$0.00
CAT 953, 4 in 1 bucket	CODLG	hour		\$0.00		\$0.00		\$0.00
Truck, Water, Off-Highway - dust suppression	COFWK	hour		\$0.00		\$0.00		\$0.00
Truck, Off-Road, Rear Dump, 23T, 13-17CYD	COEIB	hour		\$0.00		\$0.00		\$0.00
Semi Tractor -3-axle, 46,000 GVW	XTRHC	hour		\$0.00	20.0	\$879.00		\$0.00
Lowboy or Roll-off Trailer	XXPLD	hour		\$0.00	20.0	\$425.60		\$0.00
Air Compressor, 375 CFM, 100 PSI	CALDA	hour	40.0	\$795.20		\$0.00		\$0.00
Air Hose, 1", 100feet	CALDA	hour	40.0	\$38.80		\$0.00		\$0.00
Dry Ice Blasting Machine	No Echos	month	0.25	\$750.00		\$0.00		\$0.00
Personal Low Flow Sampling Pump	33 02 0314	month		\$0.00		\$0.00		\$0.00
Ambient Air Monitor	33 02 0315	month		\$0.00		\$0.00		\$0.00
Trash Pump - 3", 150 GPM	17 03 1003	day	5.0	\$234.75		\$0.00		\$0.00
<b>TOTAL EQUIPMENT</b>				<b>\$2,547.20</b>		<b>\$2,448.90</b>		<b>\$156.76</b>

MATERIALS	Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
PPE-Disposable Nitrile Sample Gloves	33010423	pair		\$0.00		\$0.00		\$0.00
PPE-Nitrile Work Gloves	No Echos	pair	2.0	\$8.00	2.0	\$8.00		\$0.00
PPE-Disposable Coveralls (Tyvek/Polycoated)	33010424	each	2.0	\$13.66	2.0	\$13.66		\$0.00
PPE-Disposable PVC Pull-over Booties	No Echos	pair	2.0	\$16.00	2.0	\$16.00		\$0.00
PPE-Respirator Cartridges - HEPA/Metals	33 01 0406	pair	2.0	\$30.72	2.0	\$30.72		\$0.00
Shower Towels, Disposable	No Echos	case	0.5	\$24.00	0.5	\$24.00		\$0.00
Dry Ice - Consumption Rate of 1,000 lbs/day	No Echos	pound	5000.0	\$1,500.00		\$0.00		\$0.00
Drum Labels/DOT Markers	No Echos	each		\$0.00		\$0.00		\$0.00
Manifests	No Echos	each		\$0.00		\$0.00		\$0.00
4-mil Poly Bags (75 count)	No Echos	roll	1.0	\$50.00	1.0	\$50.00		\$0.00
4-mil Poly Sheeting (20' by 100')	No Echos	roll		\$0.00		\$0.00		\$0.00
<b>TOTAL MATERIALS</b>				<b>\$1,642.38</b>		<b>\$142.38</b>		<b>\$0.00</b>

DIRECT COSTS & FIELD PURCHASES (no markup)	Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Fuel (Service Trucks & Equipment), Estimated @ \$4.25/gallon	\$4.25	gallons	60.0	\$255.00	200.0	\$850.00	25.0	\$106.25
Utilities (Electric, Phone, Internet)	\$250.00	Est./Month		\$0.00		\$0.00		\$0.00
Hotel	\$70.00	day	12.0	\$840.00		\$0.00		\$0.00
Per Diem	\$28.00	day	15.0	\$420.00		\$0.00		\$0.00
Drinking Water, Job Trailer	\$40.00	Est./Month		\$0.00		\$0.00		\$0.00
Federal, State, County and Municipal Fees	\$1.00	Units		\$0.00		\$0.00		\$0.00
Analytical - Asbestos Sample Analysis	\$10.00	each		\$0.00		\$0.00		\$0.00
Analytical - Waste Profile Sample Analysis	\$800.00	each		\$0.00		\$0.00		\$0.00
Analytical - Perimeter Air Sample Analysis	\$75.00	each		\$0.00		\$0.00		\$0.00
Analytical - Health & Safety Air Sample Analysis	\$75.00	each		\$0.00		\$0.00		\$0.00
Analytical - Surface & Storm Water Sample Analysis	\$125.00	each		\$0.00		\$0.00		\$0.00
Sampling Supplies (Sling, Ice, etc.)	\$50.00	each		\$0.00		\$0.00		\$0.00
Shipping Charges for Samples/Documents	\$35.00	each	3.0	\$105.00		\$0.00	8.0	\$280.00
Office Supplies/Copies by vendor	\$200.00	Month		\$0.00		\$0.00		\$0.00
Asbestos Waste Disposal	\$58.00	CYD		\$0.00		\$0.00		\$0.00
<b>TOTAL DIRECT COSTS &amp; FIELD PURCHASES</b>				<b>\$1,820.00</b>		<b>\$850.00</b>		<b>\$386.25</b>

SUBCONTRACTORS	Rate	Units	Est. Units	Est. Cost	Est. Units	Est. Cost	Est. Units	Est. Cost
Private Utility Locating Company	\$ 2,000.00	Quotes		\$0.00		\$0.00		\$0.00
Portable Sanitation Services	\$ 150.00	Est./Month		\$0.00		\$0.00		\$0.00
Electrical Sub - Temp. Power Job Trailer	\$ 2,200.00	Quotes		\$0.00	0.1	\$220.00		\$0.00
Site Security Firm, Non-Working Periods, \$13/hr, 128 hr/wk	\$ 1,664.00	Week		\$0.00		\$0.00		\$0.00
Brandenburg-Mobilization	\$ 13,000.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Group 1 Buildings	\$ 83,200.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Group 2 Buildings	\$ 279,000.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Group 3 Buildings	\$ 43,000.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Group 4 Buildings	\$ 417,000.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Rail	\$ 59,900.00	Quotes		\$0.00		\$0.00		\$0.00
Brandenburg-Demobilization	\$ 13,000.00	Quotes		\$0.00	1.0	\$13,000.00		\$0.00
Quantity - Putrescible	1	Estimate Tons		0		0		0
Quantity - Non Putrescible	1	Estimate CYD		0		0		0
Quantity - Rail Ties	1	Estimate Tons		0		0		0
Quantity - Steel Scrap, value based on AMM 5th day pricing	\$ (280.00)	Credit, Est Tons		\$		\$		\$
<b>TOTAL SUBCONTRACTORS OR PURCHASES</b>				<b>\$0.00</b>		<b>\$13,220.00</b>		<b>\$0.00</b>

**TOTAL ESTIMATED COST PER TASK** **\$22,591.98** **\$27,355.12** **\$10,771.01**

**TOTAL ESTIMATED COST PER PERIOD** **\$970,603.83**  
**BODINE ENVIRONMENTAL SERVICES, INC.**

Illinois EPA, Work Order & Cost Proposal  
Structure Removal  
Eagle Zinc NPL Site, Hillsboro, Illinois

Bodine Project Number 119855  
HWA-6303, Proposal No. 08-0821  
May 20, 2008

## Appendix D

### Project Assumptions

**Brandenburg, Industrial Service Company**

2625 South Loomis Street  
Chicago, Illinois 60608-5414  
Phone (312) 326-5800  
FAX (312) 326-5055

**Brandenburg®**

www.Brandenburg.com

May 20, 2008

Mr. Stephen Nussbaum, P.E.  
Bodine Environmental Services, Inc.  
5350 East Firehouse Road  
Decatur, IL 62521

Re: Eagle Zinc – Hillsboro, IL, Demolition Proposal

Steve:

Under the terms and conditions of this Agreement by and between Brandenburg Industrial Service Company (Brandenburg) and Bodine Environmental Services, Inc. (Customer), Brandenburg will provide all labor, material, equipment and supervision necessary to complete the removal work described herein:

1. Project Description:

1.1 Site Name

Eagle Zinc  
218 Industrial Park Drive

1.2 Design Function of Structures to be Removed

Former Zinc Oxide production facility

2. Work by Brandenburg:

2.1 Brandenburg will remove the following structures:

2.1.1 Group 1 Buildings:

Loafing Shed, U Shaped Building, Supply Building, South Supply Buildings 1, 2 and 3, H2SO4 Building

2.1.1.1 Total combustible debris to haul offsite: 340 tons

2.1.1.2 Total brick/concrete to haul onsite: 1,420 c.y.

2.1.1.3 Total scrap metal: 24 net tons

2.1.2 Group 2 Buildings:

Main Rotary Kiln Building including smoke stack and attached storage building and attached exterior bin walls. The main rotary kiln building foundation walls will be demolished to adjacent grade elevation. The earth fill present between the walls will be spread in the area.

2.1.2.1 Total combustible debris to haul offsite: 185 tons

2.1.2.2 Total brick/concrete to haul onsite: 3,812 c.y.

2.1.2.3 Total scrap metal: 648 net tons

2.1.3 Group 3 Buildings:

North Area Buildings including building with roof previously removed

**Brandenburg, Industrial Service Company**

2625 South Loomis Street  
 Chicago, Illinois 60608-5414  
 Phone (312) 326-5800  
 FAX (312) 326-5055  
 www.brandenburg.com

2.1.3.1	Total combustible debris to haul offsite:	41 tons
2.1.3.2	Total brick/concrete to haul onsite:	1,189 c.y.
2.1.3.3	Total scrap metal:	46 net tons

## 2.1.4 Group 4 Buildings:

Northeast Oven Building, Fan Buildings 1, 2, 3, and 4, Center Building with outdoor hopper structure, Fan Belt Building, American Kiln Building, American Kiln Support Buildings including attached Butler Building and 2-Story Warehouse, Southeast Hopper Building, Southeast Open Hopper Building, Southeast Kiln Building, H2SO4 AST, AST – 20' diameter on piers, Site duct conveyor between Main Rotary Kiln Building and Fan Buildings, Site Telephone/electric poles

2.1.4.1	Total combustible debris to haul offsite:	519 tons
2.1.4.2	Total brick/concrete to haul onsite:	4,415 c.y.
2.1.4.3	Total scrap metal:	1584 net tons

- 2.2 Brandenburg will remove these structures down to the top of the slab on grade or equipment base elevations. Perimeter foundation walls which extend above the slab on grade will be demolished to the slab on grade elevation.
- 2.3 Brandenburg will remove, load, haul and legally dispose of the metallic and combustible debris generated by this work.
- 2.4 Brandenburg will process the concrete generated by this work to a 12" and under size, reasonably free of reinforcing steel. Brandenburg will load, truck, dump and spread the brick and concrete debris generated by this work at the onsite landfill location as directed by Customer. We estimate that we will move 11,000 cubic yards of brick and concrete to the landfill area.
3. Licenses, Permits, Regulations and Insurance
  - 3.1 Brandenburg will secure all necessary licenses and Notifications required to perform the work. The pricing for this proposal is predicated on the city of Hillsboro waiving local demolition permit fees.
  - 3.2 Brandenburg will maintain Workers Compensation, General Liability, Asbestos Liability, Environmental Impairment and Automobile Liability Insurance with a combined single limit of \$50,000,000.00.
  - 3.3 Brandenburg will remove, load, transport and dispose of only those materials and substances specifically captioned in this Agreement. Brandenburg will not be responsible for the identification, removal, transportation or disposal of any other substance that is controlled or regulated by any law, statute, ordinance or regulation or any substance designated as a hazardous waste or hazardous substance under the Resource Conservation and Recovery Act ("RCRA") or the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA") or both.
4. Work by Customer:



**Brandenburg Industrial Service Company**

2625 South Loomis Street  
Chicago, Illinois 60608-5414  
Phone (312) 326-5800  
FAX (312) 326-5055  
www.brandenburg.com

Customer agrees to perform the following in a timely manner so as not to impede the progress of Brandenburg's work described herein:

- 4.1 Unless otherwise provided herein, identify, remove and dispose of any substance that is controlled or regulated by any law, statute, ordinance or regulation or any substance designated as a hazardous waste or hazardous substance under the Resource Conservation and Recovery Act (RCRA) or the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) or both.
- 4.2 Identify any controlled or regulated substances located within the work area. Provide Brandenburg with Material Safety Data Sheets as required by all applicable laws, statutes, ordinances and regulations.
- 4.3 Authorize Brandenburg to utilize any or all of the following equipment and/or devices to complete the work described in this Agreement:
  - Oxygen cutting torches
  - Hydraulically powered breakers
  - Explosives (for stack only)
- 4.4 Authorize Brandenburg to operate heavy equipment and trucks throughout the work area.
- 4.5 Customer will perform all environmental cleaning of existing process equipment.
- 4.6 Customer will perform the onsite trucking of demolition debris which will remain onsite.
5. Contract Conditions:

The Customer and Brandenburg agree that:

  - 5.1 Brandenburg and Customer shall occupy the entire work area exclusively upon the commencement of Brandenburg's work. Brandenburg shall not be responsible for the safety of any person who enters the work area unless such person has been specifically authorized by Brandenburg to enter the work area.
  - 5.2 This proposal does not include the removal, handling, transportation or disposal of the following:
    - 5.2.1 Lead abatement of any nature
    - 5.2.2 Hazardous wastes
    - 5.2.3 Slabs on grade
    - 5.2.4 Below grade foundations
    - 5.2.5 Underground Storage Tanks
    - 5.2.6 Contaminated Soil
    - 5.2.7 Asbestos containing materials – these materials will be abated on a negotiated basis once the extent of the abatement is known.

**Brandenburg Industrial Service Company**

2625 South Loomis Street  
 Chicago, Illinois 60608-5414  
 Phone (312) 326-5800  
 FAX (312) 326-5055  
 www.brandenburg.com

5.2.8 PCB containing equipment, PCB contaminated building materials, PCB contaminated soil.

5.3 Brandenburg will schedule work on a minimum 5 day per week, 10 hour per day basis.

5.4 Brandenburg will complete all work within 100 calendar days after the commencement of onsite work.

5.5 Customer will convey to Brandenburg all rights to, title to and interest in all scrap metal that is currently located within the dismantling area.

## 6. Payment:

6.1 Brandenburg will perform the work described in this agreement for and in consideration of receiving from Customer title to all salvage and payment in the total amounts listed below under the heading "Contract". Payment for all work completed in any calendar month shall be made to Brandenburg prior to the 30th day of the following calendar month without exception or retention whether or not Customer has received payment from any other party.

The "Contract" amount will be adjusted based on the actual tonnage and scrap value at the time the scrap metal is shipped. The credit per ton will be calculated based on the current Unit Scrap Credit listed below adding (or subtracting) the relative change from the current American Metal Market (AMM) 5<sup>th</sup> day pricing to the pricing of the AMM 5<sup>th</sup> day of the month the scrap is shipped. The current AMM 5<sup>th</sup> day price is \$420 per net ton for No. 1 Heavy Melt. The pricing is also based on Net tons (2,000 lbs) in lieu of Gross Tons (2240 lbs).

6.2 The pricing is broken down as follows:

Item No.	Description	Contract	Unit Credit Scrap	Estimated Tonnage Scrap Metal	Total Scrap Credit	Net
6.2.1	Mobilization/Demob	\$ 25,000				\$ 25,000
6.2.2	Group 1 Buildings	\$ 83,200	\$ 280	24	\$ 6,720	\$ 76,480
6.2.3	Group 2 Buildings	\$ 279,000	\$ 280	648	\$ 181,440	\$ 97,560
6.2.4	Group 3 Buildings	\$ 43,000	\$ 280	46	\$ 12,880	\$ 30,120
6.2.5	Group 4 Buildings	\$ 417,000	\$ 280	1584	\$ 443,520	\$ (26,520)
6.2.6	Site Rail/Tie Removal	\$ 59,900	\$ 280	255	\$ 71,400	\$ (11,500)
	<b>total</b>	<b>\$ 907,100.00</b>		<b>2302</b>	<b>\$ 715,960.00</b>	<b>\$ 191,140.00</b>

**Brandenburg Industrial Service Company**

2625 South Loomis Street  
Chicago, Illinois 60608-5414  
Phone (312) 326-5800  
FAX (312) 326-5055  
www.brandenburg.com

**Acceptance:**

This Agreement shall remain an offer for acceptance by Customer for a period of thirty days and such offer shall be terminated thereafter

The undersigned principals warrant that they are the owners or duly authorized agents thereof and that pursuant thereto they have the authority to contract as herein provided.

**PROPOSED:****Brandenburg Industrial Service Company**

by

name

title

date

**ACCEPTED:****Bodine Environmental Services, Inc.**

by

name

title

date